THE CHEMIST AND DRUGGIST

TELEGRAPHIC ADDRESS CHEMICUS LONDON.

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Branch Offices: MELBOURNE and SYDNEY.

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Abonnementspreis: The Chemist and Druggist einmal wöchentlich, und Notizkalender des Chemist and Druggist einmal im Jahre, 10 Mark jährlich, frei in's Haus geliefert.

Precio de suscricion: The Chemist and Druggist, una vez por semana, y el Agenda del Chemist and Druggist una vez al año 12.50 pesetas anuales franco.

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Subscription, 10 per annum, including Diary Post Free the World over Single Copies, 4d each Winter and Summer Issues, 1s. each, Post Free.

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THE BEST NATURAL APERIENT WATER

Per Case 25 Large Bottles, 20/-; 50 Small Bottles, 32/6; 100 Quarter Bottles, 32/6.

Carriage paid to any Railway Station in the United Kingdom.

PER CENT. DISCOUNT UPON ORDERS FOR 10 CASES.

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COD LIVER OIL	MALT AND OIL	LOZENGES
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The above are supplied in BULK, or put up in Bottles, &c., to suit the requirements of buyers.

EXTRACTS, Solid & Fluid, INFUSIONS, DECOCTIONS, PILLS, OINTMENTS, and all PHARMACEUTICAL PRODUCTS.

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Exchange Column, *Coloured Supplement.* Index to Advertisements, pp. 79–81

MAY & BAKER, LIMITED

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BATTERSEA, S.W.

NEAREST STATION
OLD BATTERSEA STATION,
West London Extension Railw

For LITERARY SUMMARY, see page 178.

The Chemist & Druggist SUPPLEMENT

SATURDAY, MARCH 13, 1897.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see page 177 of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

WE CAN DO IT!

The Circulation of "The Chemist and Druggist" Supplement for March 27 will exceed

14,000

Take advantage of it by advertising your wants.
If you want a Business, or wish to sell one;
If you have a Situation vacant, or wish a Situation,
You cannot do better than advertise in this Supplement.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, MARCH 25, at 5 P.M.; but send earlier if you can.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.
PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.
VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—**£1,200.—LONDON, N.W.**—Good-class Business, Retail and Dispensing; returns nearly £1,200 per annum, *net profit between £450 and £500*. The shop is handsomely fitted and well stocked; capital residence on lease; intending investors with about £1,200 at command can have particulars.

2.—**£500.—LONDON (Residential Locality).**—Retail and Dispensing Business; returns £500: the shop is well-fitted (by Treble); good residence on lease; price, valuation of stock and fixtures; no goodwill required.

3.—**£400—LONDON, S.E. (Good Residential Locality).**—Dispensing and Retail Business: returns £400 yearly; well-fitted shop and good working stock; *the profits are above the average*; price to an early purchaser, £250.

4.—**£500.—LONDON, N.W.**—Retail and Dispensing Business; returns nearly £500 yearly; *net profit about £200*; capital shop, very convenient residence, held on lease; price £350.

5.—**£900.—LONDON (Suburban).**—Old-established Business; Retail and Dispensing; returns nearly £900 yearly, *with good profits*; the shop is well fitted and stocked; large residence on lease; part can be let off; price £850.

6.—**£600.—LONDON, W. (Neglected Business).**—Good Dispensing (under management); present return about £600: can be largely increased by an energetic man; commodious house on long lease; the position must command business, being in close proximity to Langham Hotel; price about £500; recommended.

7.—**£650.—FENCHURCH STREET (near).**—Old-established Business, situate in busy main thoroughfare; returns under manager, £650; handsomely-fitted pharmacy; capital residence, private entrance; price to be arranged; must be sold; offer wanted.

8.—**£2,300.—SOUTH MIDLAND.**—Old-established Mixed Business; returns over £2,300 per annum; *net profit about £500 yearly*: well-fitted pharmacy and good stock; terms £200 for goodwill and valuation of stock and fixtures.

9.—**£600.—BERKS (Good-sized Market Town).**—Old-established Business situate in the centre of town; returns £600; well-fitted shop and good stock; good residence on lease; offer wanted; capital opening for a beginner.

10.—**£600.—KENT (Naval Town).**—Retail and Dispensing Business well situate in the main street; returns over £600 yearly; *net profit £300*; well-fitted shop and good house; 21 years' lease; offer wanted.

11.—**£650.—SUFFOLK (Large Town).**—Light Retail Business situate in a busy town; returns £650, increasing; *net profit £200*: good shop and premises, held on lease; price, valuation of stock and fixtures; no goodwill required.

12.—**£750.—HASTINGS.**—Old-established Business; Retail and Dispensing; returns £750 yearly; handsomely-fitted shop and good stock; the business is situate in the principal street; price £525, estimated value of stock and fixtures.

13.—**£500.—WEST OF ENGLAND.**—Old-established Business situate in the centre of town; returns £500; well-fitted shop, attractive in appearance; large house held on lease; price about £250; suitable for an invalid.

14.—**£550.—STAFFS.**—Old-established Business situate in the centre of town; returns £550 yearly, *very profitable*, being largely from own proprietaries; nicely-fitted shop; very low rental; valuation only required; no goodwill.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.
Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—**Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with Small Capital, from £200 to £500.**

ORRIDGE & CO., 32 LUDGATE HILL, LONDON, E.C.

F. J. BRETT

VALUER,

37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS.

NO CHARGE TO BUYERS

£1,100 returns.—**LINCOLNSHIRE**—Very old-established Family, Retail, and Agricultural Business, with fair Dispensing; good house; lease; very short hours; will bear strict investigation; net profit £300; price £1,000, or moderate goodwill and valuation of stock and fixtures.

£700 returns.—**MIDLANDS.**—Good-class Country Retail; rising market town; exceptionally good house, garden, conservatory, &c.; price £550; open to offer.

£1,300 returns.—**WARWICKSHIRE.**—Ligbt Retail, fair Dispensing aud own Specialities; net profit £400; good residence; price £950.

£820 returns.—**BIRMINGHAM (Suburb).**—General Store trade, Prescribing, &c.; low rent; price £700.

£900 returns.—**SOUTH WALES.**—Light Cash Retail, in good-class growing district; good house; long lease; net profit £250; price £600.

£700 returns.—**LONDON, W.**—Light Retail, Dispensing, Prescribing, and own Preparations, which have good sale; returns increasing; good house, on lease; price £600.

£500 returns.—**HUNTINGDONSHIRE.**—Old-established Retail, with Wine and Spirit license; vendor retiring after 30 to 40 years' occupancy; energetic young man of limited capital would do well; price about £200.

£500 returns.—**LONDON, S.E.**—Very profitable Prescribing and Ligbt Retail, on main road; good house; price £300.

£800 returns.—**LONDON.**—Light middle-class Retail; can, with personal atteution, be much increased; fair house; rent £30; long lease; price £550.

£700 returns.—**LANCS.**—General Mixed Retail; net profit £200; price £500.

£500 returns.—**BURNLEY.**—General Mixed Retail and Prescribing; reut £18; price £150.

£550 returns.—**STAFFS.**—Ligbt Retail, Prescribing, and own Specialities; illness cause of sale; price about £450.

Vendors of good businesses can be at once supplied witb buyers by F. J. BRETT.

VALUATIONS.

F. J. BRETT has been well known for many years throughout England and Wales as a reliable Valuer, and his extensive experience in all branches of the trade renders his services equally valuable to Vendors and Buyers.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

35 JEWRY STREET, FENCHURCH STREET, E.C.

Established 1870.

1.—**MIDLANDS.**—Death vacancy; old-established Retail and Prescribing Business; returns £1,400; price £1,000, or by valuation.

2.—**CHESHIRE.**—Old-established Drug Business; returning £1,200; qualified man would do £2,000; price £600, or valuation.

3.—**MIDLANDS.**—Light Retail and Prescribing; returns £750, and Post Office £150; net profit £400; price £600.

4.—**KENT.**—Unopposed Retail and Prescribing Business; returns £600; corner shop: good house; low rent; price £250.

5.—**LEEDS.**—Branch Business; returns under management £10 to £12 weekly, vendor did £25; price £350.

6.—**KENT.**—Light Retail, Dispensing, and Prescribing Business; returns £1,150, increasing each year; good house; price £750.

7.—**40 MILES FROM LONDON**, prosperous agricultural district; unopposed Business; returns £1,500; price £850.

8.—**LANCASHIRE.**—Retail and Prescribing Business; same hands 25 years; returns £1,100 under management; price £800.

9.—**SEASIDE** (50 miuutes from Londou); Branch Business, only open few months and doing well; price £225.

10.—**SOUTH-WEST COUNTY.**—Good-class Retail aud Dispensiug Business; returns £600 under management; price £500.

11.—**HASTINGS.**—Light Retail and Dispensing Business; returns £750; same hands 20 years; price £470 or valuation.

12.—**LONDON, N.W.**—Good-class Retail and Dispensing Business; returns £1,200, net profits, £400; good house; price £900.

13.—**LONDON, N.** (few miles out).—Good-class Retail and Dispensing Business; returns £1,150; price £950 or offer.

14.—**LONDON, W.** (maiu road).—Returns £10 to £12 weekly undermauager; no patents sold; price £325.

Particulars of the above and others sent free on application.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

NO CHARGE TO PURCHASERS.

35 JEWRY ST., FENCHURCH ST., CITY.

JUDD & MANNERS

Chemists' Valuers, Transfer Agents, & Accountants,

76 CANNON STREET, LONDON, E.C.

VALUATIONS made for Probate or Transfer by a fully qualified member of the firm. Books Audited, Balance Sheets Prepared and Chartered Accountants' Certificate given.

Terms (moderate) on application.

MIDDLESEX.—Family and Dispensing Business; returns £1,100; very nice house aud garden; price £900; a lease can be had if desired.

KENT.—An old-established Family trade; returns average over £600 per annum; very handsome sbop well situate in the centre of a busy town; rent £70; lease 21 years; valuatiou can be arranged.

SURREY.—Good-class Family trade; returns £650; price £600. This is an exceptionally good investment and capable of great increase.

LONDON, N.—Light Retail and Dispensing Business; making a return of over £14 weekly under the management of an assistant; very handsome Pharmacy, and good house held on long lease at a moderate reut; price £500, or valuation can be arranged.

Full particulars of any of the above sent free on application.

VALUATIONS A SPECIALITY.

FERGUSON & OSBORNE

PHARMACEUTICAL CHEMISTS,

CHEMISTS' VALUERS AND TRANSFER AGENTS.

25 YEARS' PRACTICAL EXPERIENCE.

NO CHARGE TO PURCHASERS.

All VALUATIONS and STOCKTAKINGS are conducted personally by the Principals. Terms on application.

1.—**CORNWALL.**—Retail and Dispensing; returns £1,200; price £950.

2.—**LONDON, W.**—Ligbt Retail and Dispensing; returns over £700; price £600.

3.—**BERKSHIRE.**—Retail and Dispensing; returns £750; price £650.

4.—**YORKSHIRE.**—Light Retail and Prescribing; returus £750; price £450; bargain.

5.—**BUCKS.**—Retail and Dispensing; returns £650; price £425.

6.—**LONDON (Market Locality).**—Returns £260; price £100.

56 CHEAPSIDE, LONDON, E.C.

(Next Door to Bow Church.)

THOMAS TOMLINSON & SON.

Chemists' Transfer Agents and Valuers,

9 NEW CANNON STREET, MANCHESTER.

42 YEARS' EXPERIENCE.

Valuations Conducted with careful attention to detail.

BUSINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once with all despatch put into communication with bonâ-fide buyers without publicity and the annoyance of answering "curiosity" applications. **No charge made unless Sale is effected.**

BUSINESSES FOR DISPOSAL of various classes, and amounts of returns ranging from £200 to £4,000. Particulars given to bonâ-fide applicants stating outline of requirements.

NO CHARGE TO PURCHASERS

Telegraphic Address—"TOMTOM."

TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

ROYAL ARCADE, WEYMOUTH (the Naples of England).—Building now approaching completion; shop to be Let for the business of Chemist. For particulars, apply, Southern Syndicate, Broad Street Avenue, London, E.C.

LARGE Premises aud ½ acre land, in rising suburb, N.E. London, near G.E. station; healthy, open country; shafting, gas, water laid on; no restrictions; sell freehold, leasehold, or let 7, 14, 21 years; suitable for Chemical Factory. Further particulars from "Phœnix," c/o Deacon's, 154 Leadenhall Street, E.C.

BUSINESSES FOR DISPOSAL.

6d. for 50 words or less; 6d. for every 10 words beyond.

RMINGHAM (Suburb).—Profitable Light Retail Drug Business; double-fronted corner shop and good house; commanding position centre of dense population; returns £600. Apply, "Drugs," c/o mlinson & Sons, Bond Street, Birmingham.

IESHIRE.—Thoroughly well-stocked Drug and Drysaltery Wholesale and Retail Store, where an excellent Dispensing Business can be acquired; excellent stand; house and well-fitted shop, with cont warehouse and stables attached; grand opportunity for energetic returns £1,250 per annum; rent reasonable; the stock and fixtures valuation; one of the vendors would remain a short time to give ive introduction. Apply to "Value," c/o John Thompson (Limited), ver Street, Liverpool.

EAT YARMOUTH.—Old-established Retail, Dispensing, and Prescribing Business; returning £800; capital position, main ughfare; convenient house; large shop, well fitted and stocked; purchased another business will accept valuation of stock and es; immediate possession can be had. "Yare" (47/12), Office of THE IST AND DRUGGIST, 42 Cannon Street, E.C

AMPSHIRE.—A good old-established Business, returning under a manager over £750 a year; the premises are large and convenient, and is plenty of opportunity to increase the trade; to sell quickly a small vill and valuation will be accepted. X. L., c/o Messrs. Newbery & King Edward Street, London, E.C.

NCASHIRE (Market Town).—Light Cash Retail and own Proprietaries; smart shop, modern mahogany fittings, excellent stock; gs about £750; house medium size, with private entrance; rent only vendor leaving England, will accept £450, rather than leave it under gement. "Genuine" (48/5), Office of THE CHEMIST AND DRUGGIST, nnon Street, E.C.

EDS.—Through death of proprietor; old-established Business, suitable for beginner; returns low, but could be considerably increased shing man; cash price, stock, fittings, and goodwill, £125. Apply, S., 137 Meanwood Road, Leeds.

NDON, N.W.—Genuine Business for Sale, good class. Particulars of L., T. C. Martin, Esq., 36 Camden Square, N.W.

NDON, E.C.—Chemist and Druggist's; main position, one of the best thoroughfares in London; the vendor, after 50 years' possession, now ng from business; returns £500, mostly Prescribing; lease, fixtures, ock as it stands, £300. Apply Morton Bell, 9 South Place, Finsbury nent, E.C.

NDON, S.E. (Suburban).—Good-class Light Retail, Dispensing, and Prescribing Business; good lease; low rent; satisfactory reasons sposal; price £300, or any reasonable offer; no agents. Address, rmacy" (44/40), Office of THE CHEMIST AND DRUGGIST, 42 Cannon , E.C.

NDON, S.W.—£850.—A genuine Cash Retail Business for immediate disposal, in a rising suburb; a splendid opportunity for an energetic returns exceed £1,100; net profits exceed £460; capable of consider-xtension. X., c/o W. R. Bryant, 28 Ashbourne Grove, East Dulwich,

NDON (South).—Business in crowded neighbourhood for Disposal; profit £250; good opening for Dentistry; Post and Telegraph Office hed more than pays rent; long lease; plate-glass front; back entrance; reasons for disposal; price £500. M. A., c/o Messrs. Meggeson & Co., les Lane, Upper Thames Street, E.C.

ALES.—A thoroughly sound Retail, Prescribing, Agricultural and Cattle-medicine Business; well stocked; good house and garden; few patents, all full prices; returns £400, greatly neglected; sole of sale, owner going abroad for health; inspection invited; books 3 rooms furnished; price the lot £180; principals only; must sell arch 27, 1897. Apply to F. J. Brett, 37 Waterloo Street, Leicester.

R immediate Disposal; returns £370; price £300; profitable; no patents; bonâ-fide buyers only. 47/2, Office of THE CHEMIST AND GIST, 42 Cannon Street, E.C.

R Sale, a Cash-store Business in manufacturing town in North Riding, Yorkshire; full particulars given on application; bonâ-fide ns for disposal. 45/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon , E.C.

R Disposal, Light Retail, Prescribing, and Dispensing Business; growing neighbourhood; no opposition; corner shop, well fitted; did chance for beginner; genuine; returns £350; price £225. ess, "Maro" (47/22), Office of THE CHEMIST AND DRUGGIST, nnon Street, E.C.

GENUINE Drug Business in country, making £250 net, suitable for gentleman of good experience in Prescribing, Extracting, and General trade; rent and expenses light; easy hours; steady, working, and middle-class trade, all cash; well stocked; price £500, part could remain; Chester district. Apply, "Mistura" (44/28), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMMEDIATE.—South Coast, commercial town; an old-established Business; present returns at the rate of £500 to £525 per annum, has been much larger; vendor being an invalid has been for some time unable to personally attend to business; well-fitted shop, best position in the town. Particulars on application to "Alpha," c/o Orridge & Co., 32 Ludgate Hill.

IN large town; good-class Business, mostly Cash; last year's profits over £300; long lease; excellent premises; well stocked; health cause of disposal; price £600; no agents. A. (44/36), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

RETAIL and Prescribing Business for immediate Disposal, good opening for energetic man, returning about £500, under management, in a rising and prosperous district near Manchester; no opposition; rent £16; price £350; will bear thorough investigation. Apply, Ferrand, c/o Joseph Brook (Limited), Manchester.

RETAIL and Dispensing Business (old-established West-end); well stocked, and good fixtures; large house, side door; low rent, on lease; owner retiring from business; returns last year £450 books to prove; large profits; price £270. "Optimus" (47/21), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SOUTH-WESTERN COUNTY TOWN.—Nucleus of large Business, recently much neglected; has done £1,200, now doing about £8 weekly: up-to-date man, with a little capital, would do £1,000 first year; good premises; value of stock and fixtures only required, about £300. "Ipecac." (47/13), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

THOROUGHLY established Business for Sale in a residential locality in London; satisfactory reason for selling; a man who understands letting can make at least £200 net profit; price £350. "Xiphoid" (47/33), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£200 cash, or on good security; exceptional offer to effect a quick sale; London (West), Cash Retail, Prescribing, and Extractions; lock-up shop, with parlour; well fitted and stocked; shows net profit of about £200 per annum; could be very much increased with personal attention. W. J. (39/3), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£475.—Unopposed Light Retail and Dispensing Business, returning £600, situated in a very pleasant part of Surrey; no other Chemist for six miles; low rent, on lease; good house, with large garden; shop is well fitted and heavily stocked. "Aloin" (47/11), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

WANTED, small Business, returning about £10 weekly; Eastern counties preferred. "Chemist," c/o B. Pipe, Esq., South Cove, near Wangford, Suffolk.

WANTED, to purchase, a Drug Business in Yorkshire (Leeds or Bradford preferred), returning not less than £1,000 per annum; must bear strictest investigation and capable of development. W., c/o Hargreaves, 53 Athol Road, Manningham, Bradford, Yorks.

WANTED, immediately, good and reliable Retail and Dispensing Business in a busy Provincial Town or good London Suburb; cash ready up to £1,350 for one that will bear investigation; the house must have not less than four good bedrooms. Apply, "Major," c/o Messrs. Walton & Co., Chemists, Heath Street, Hampstead, N.W.

APPRENTICESHIPS.

RETAIL.

BRISTOL.—A vacancy for a well-educated youth as Apprentice to the Chemist's business; one who has passed the Prelim. exam. or its equivalent preferred. For particulars, apply, T. T. Wade, 8 Zetland Road, Bristol.

COALVILLE.—Wanted, a gentlemanly youth as Apprentice; one who has passed his Preliminary preferred; outdoors; small salary given. Apply, Jno. Porter & Son, Coalville, Leicestershire.

TENDERS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

BOARD OF WORKS FOR THE POPLAR DISTRICT.

TO CHEMICAL MANUFACTURERS AND OTHERS.

NOTICE IS HEREBY GIVEN that the Board will meet at the Board-room, 117 High Street, Poplar, on Tuesday, the 16th day of March inst., at 6.30 o'clock in the evening precisely, to receive TENDERS for the supply of DISINFECTANTS for one year, ending Lady Day, 1898, as follows, viz.:—

Carbolised Peat Powder, 15 per cent. of Carbolic, at per ton.
Permanganate of Potash, at per lb.
Black Carbolic Acid, 33 per cent. of Carbolic.
Chloro-Naphtholeum, in bulk, 25 per cent. of Carbolic.
Burnett's Drain-Tests, at per gross.
Kemp's Drain-Tests, at per gross.

The Board do not bind themselves to accept the lowest or any Tender.

Contractors will be required to pay Trade-Union rates of wages, and to covenant not to sublet any portion of the Contract. Compliance with these conditions will be rigidly enforced under a penalty of the sum of £5 for each breach.

Contractors will be required to furnish securities to the satisfaction of the Board, and to enter into bond with them for the due performance of Contract, and pay down the sum of £2 immediately upon acceptance of the Tender, towards the expenses of the Contract and Bond.

Tenders, upon the forms for that purpose, are to be delivered, in separate covers, duly marked and sealed, before Two o'clock in the afternoon of the 16th day of March, after which time no Tender will be received.

Further particulars and forms of Tender can be had at the Office of the Surveyor, any day to the 15th day of March, between 9 A.M. and 4 P.M.

WILLIAM HENRY FARNFIELD,
Clerk to the Board.

Board's Offices: 117 High Street, Poplar, E.
6th March, 1897.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

RETAIL.

ALDERSHOT.—Junior Assistant required early next month; must be active, obliging, and reliable; half-holiday allowed weekly. Usual particulars, with photo (to be returned) and salary required, to E. H. Orange, 25 High Street, Aldershot.

ASHFORD.—Wanted, Junior Assistant, about 21, by middle of March, in Country business; only one kept. Apply, with full particulars, and enclose photo, to W. P. Forth, Chemist, Ashford, Kent.

BELFAST.—Wanted, a qualified Assistant, well up in Compounding and Store business; state age, height, and usual references; salary £2 per week; outdoors. Enclose photo to W. A. Lynass, 5 Ann Street, Belfast.

BEXHILL-ON-SEA.—Junior; accustomed to first-class trade; must be good Dispenser; good references indispensable. Apply, sending photo if possible (to be returned), Griffiths, Chemist, Bexhill-on-Sea.

BEXHILL-ON-SEA.—Wanted, shortly, a reliable Assistant, about 23; must be a good Dispenser and Counterman. Apply, with full particulars, photo, &c., to F. Wimshurst, Pharmaceutical Chemist, Bexhill-on-Sea.

BIGGLESWADE.—Wanted, an Assistant with Minor qualification; outdoors. Apply, with usual particulars, to Spong & Son, Chemists, Biggleswade, Beds.

BIRKENHEAD.—Wanted, Senior; qualified; outdoors. Woodcock, Birkenhead.

BLANDFORD.—Junior, at once (indoors), accustomed to good-class Country business; highest references indispensable; easy hours and thoroughly comfortable home. Groves, Pharmaceutical Chemist, Blandford.

BARNSTAPLE.—Wanted, about March 21, a reliable Assistant in General, Retail, and Dispensing Business: comfortable home. Apply, stating salary, experience, &c. (with photo, if convenient), to E. Pratt, High Cross, Barnstaple.

BEDFORD.—Dispenser.—Wanted, by a Surgeon, in a country town, a Dispenser (Minor): must furnish proof of highest character; salary to commence at £90, outdoors. Enclose carte and full particulars to B., c/o Anthony & Son, Bedford.

BRADFORD.—Assistant; 20 to 22; trustworthy and obliging; permanency; one who can Extract preferred; salary £1 per week outdoors; weekly half-holiday May to September. Send references and all particulars to 46/5, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

BRIGHTON.—Junior Ass'stant, accustomed to good-class business. Apply, stating age, height, experience, and salary required, to Foster & Else, 52 King's Road, Brighton.

CAPE TOWN.—Assistant required immediately, of good experience holding Minor qualification, neat and accurate Dispenser, and write a good legible hand, aged about 23; Scotchman preferred; salary 1st year £12 per month; 2nd year, £13; 3rd year, £14; sleeping accommodation provided; second-class passage paid out conditional on a 3 years' agreement being signed. Candidates, who must hold undeniable references address "Cape" Messrs. Evans, Lescher & Webb, 60 Bartholomew Close London, E.C.

CARDIFF.—Junior Assistant wanted, at once. Apply, with full particulars, to Williams, Chemist, King's Road, Cardiff.

CARDIFF.—Qualified Dispenser; outdoors. Please state age, height reference, salary required, and when disengaged, Jesse Williams & Co., Chemists, Park Hall Buildings, Cardiff.

CHESTER.—Third week in March, a qualified Assistant, aged 23-25 indoors; must be good Dispenser. Apply, with full particulars, to Messrs. Shrubsole & Son, City Pharmacy, Town Hall Square, Chester.

CHICHESTER.—Dispenser and Bookkeeper wanted in Country practice; private, club, and union dispensing. State particulars and references to Dr. E. Buckell, Chichester.

COVENTRY.—Wanted, a good Junior (indoors), for a small Light Retail Drug Store; must be pushing salesman; light hours and half day weekly. Please send full particulars, with photo and references, which must bear strict investigation, to Thomas Bailey, The North End Cash Drug Stores, Coventry.

CROYDON.—Junior Assistant; outdoors; knowledge of Homœopathy not essential. State age, height, salary required, and enclose photo to W. H. Gill, 40 George Street, Croydon.

EASTBOURNE.—Qualified Assistant; indoors; with knowledge of Photography preferred. State full particulars, with salary required and references, to J. Gibbs & Son, The Central Pharmacy, Eastbourne.

EXETER.—A qualified Assistant, aged about 23, is required by Holman, Ham & Co., Family and Dispensing Chemists, 74 High Street, Exeter. Please state salary, height, &c., and send photo if convenient.

FAREHAM.—Junior, about 21; active and energetic; indoors; Mixed Country Retail, with small Wholesale; no heavy trade or Sunday duty. Please send photo (returnable), and full particulars to W. O. Smith, Titchfield, Fareham.

GLOSSOP.—Wanted, energetic qualified Manager, aged 28 to 30; outdoors; reasonable hours; no Sunday duty; must be experienced and thoroughly trustworthy; photo and references; salary and commission; immediately. Golden, Chemist, Glossop.

GODALMING.—Assistant, qualified, about 24, obliging and reliable for good-class Retail and Dispensing business; send photo if possible. Edwards, Chemist, Godalming.

GRANGE-OVER-SANDS.—Wanted, Manager for Branch; well up in Dispensing, Prescribing, and Photography; qualified; with or without comfortable unfurnished house. Give full particulars, and enclose photo, if convenient, Hankinson, Chemist, Grange-over-Sands.

HARWICH.—Wanted, about March 25, a steady and trustworthy Assistant, indoors, not under 22; need not be qualified if competent and good references; a comfortable home. Apply, stating age, height, salary required, and full particulars, with photo if convenient, to A. Wort, Chemist, Harwich.

HULL.—Qualified Assistant wanted at once; young man preferred. Apply by letter only, stating age and salary required, to P., c/o E. H. Allison, Limited, Blanket Row, Hull.

LEEDS.—Wanted, at once, outdoor Junior Ass'stant; must be qualified and accustomed to good-class Retail and Dispensing Business; knowledge of Photography preferred, but not essential. Apply, stating age, height, experience, and salary required, to H. T. Metcalfe, Pharmaceutic Chemist, Headingley, Leeds.

LEICESTER.—Wanted, at once, Dispenser, qualified, aged about 25, in quick Cash Drug Store; permanent. Apply, giving full particulars as to age, height, salary, reference, and enclose photo, to Wand, Ca Chemist, Haymarket, Leicester.

LEYTONSTONE, N.E.—Assistant, qualified (indoors), to take charge of a Branch; aged from 23 to 30. State age, height, experience, and enclose photo, Matthews & Son, Chemists, 722 High Road, Leytonstone N.E.

RETAIL—continued.

ERPOOL.—Wanted, an Assistant, about 28, accustomed to Dis-ensing, Prescribing, and medium-class Retail; salary £50. Address, particulars and references, to J. W. Tattersall, Cazneau Street, ool.

NDON, W.—Juniors, used to quick Retail and Dispensing. State age, experience, reference, and salary required, Shirtliff & Co., dbawk Road, Shepherd's Bush, W.

NDON, S.W.—March 24th, an energetic gentlemanly Junior; otal abstainer preferred. State age, references, salary, and euclose to Charles W. Andrew, Pharmacist, 781 Fulham Road, Muuster S.W.

NDON, E.—Assistant or Mauager; qualified; aged about 30; narried man preferred; permanency if suitable; accustomed to Store ss; no Sunday duty. Address, T. C. Holford, 342 and 344 High , Stratford, E.

NDON, S.W.—About the end of March, a competent Junior Assist-ant, accustomed to good-class business; qualified preferred. Apply, g salary and usual particulars, to J. Selley, 142 Earl's Court Road, Kensington, S.W.

NDON, S.W.—Indoors, near Muter's & Wills', Assistant with good-class experience; state salary required and particulars with photo; edge of Photographic goods preferred. Apply, Glew, Chemist, apham Road, S.W.

NDON, N.W.—Qualified Assistant, for first-class business, with good Dispensing and Retail experience, of gentlemanly appearance and ss; indoors; personal application preferred; if by letter, state full ulars as to age, salary required, and experience; only 1 kept. T. F. , 28 Endsleigh Gardens, N.W.

NDON, S.W.—Wauted, about the first week iu April, a qualified Assistant in a Light Retail and Dispensing, with a little Hospital nsing; comfortable home; liberal salary. Apply, Mr. Williams, ist, 68 West Hill, London, S.W.

NDON, W.—Qualified Assistant, to take charge of Branch in London suburb; married preferred, but not absolutely essential; good Dis-r, and thoroughly reliable. Apply, stating full particulars, to gh, Pharmaceutical Chemist, Netherwood Road, West Kensington, W.

NDON, S.E.—Juuior, about 21, or Student-Assistant (part-time), required; arrangemeut in the latter case made for two or three days k, or for part time every day; small Retail and Dispensing; good ences; abstainer preferred. Apply or address, stating age, height, rience, with terms, Phillips, Knight's Hill, West Norwood.

NDON, S.W.—Wanted, beginning of April, qualified Assistant, about 24 or 25 (indoors), of good address; must have been accus-d to a good-class Dispensing and Retail business; state height, salary, enclose photo (to be returned). Apply to Foster Blades, 10 Gloucester , South Kensington, S.W.

NDON, S.W.—Wanted, Junior, unqualified, April 1st (about 23), in a good-class suburban business; oue with a knowledge of Photography rred; time for study. Write in first instance, stating all particulars, wrence & Co., 125 St. Johu's Hill, New Wandsworth, S.W.

NDON, S.W.—Immediately, a qualified Assistant (outdoors), aged about 24, for high-class Dispensing and Store business. Bate's Drug s, 44 Harrington Road, South Kensington, S.W.

NDON, S.W.—Assistant, about 22 years; one only kept; good refereuces essential. State particulars of experience, age, height, y (indoors), and when disengaged; if convenient enclose carte (to be ned), or personal interview. A. Higgs, Chemist, Kingston, S.W.

NDON, N.W.—Junior Assistant, about 23, for good-class Retail; must be good Dispenser and of gentlemanly appearance and address. y by letter, stating age, height, experience, and salary required, rs (enclose photo if possib'e), Chas. A. Neale, 16 Townshend Road, on, N.W.

NDON, W.—Required, a steady business-like Assistant, of good appearance and address; aged 23 or 24; need not be qualified, if etent and possessing good references. Apply, personally or by letter, g height, salary (indoors), and enclosing photo, to W. V. Wright, dway, Hammersmith.

UTH.—Wanted, Assistant, outdoors, aged 24, accustomed to good-class Family and Dispensing business; knowledge of the Agricultural rtment essential. Apply, enclosing photograph, and stating salary, o Smith & Elkington, Mercer Row, Louth, Lincs.

ARLOW.—Smart Junior required in a good Country business: must be well up in Photography. Apply, stating age, height, refer-, salary required, and enclose photo, to C. Page Dye, The Central macy, Marlow.

EDITERRANEAN.—Wauted, a qualified Assistant for a first-class Pharmacy in the Mediterranean: age not to exceed 30; unmarried; ge paid out; liberal salary. Address, with full particulars, to D., c/o rs. Street & Co., 30 Cornhill, E.C.

MIDSOMER NORTON.—Junior Assistant, aged about 20, for good-class Country business; must be well recommended, active, and of gentlemanly manners and address. State age, height, particulars of experience, salary required (indoors), references, and enclose photo (which will be returned), to E. J. King, Pharmaceutical Chemist, Midsomer Norton, near Bath.

NATAL.—Assistant required immediately; must be single and possess the Minor qualification; about 25 years of age; of good experience and a good Dispenser; steady, active, and healthy; total abstainer preferred; salary, £12 10s. per month first year, £13 10s. second year, £15 third year; sleeping accommodation provided, but to find own board; second-class passage paid out conditional on a three years' agreement being signed. Address, "Natal," c/o Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

NEWCASTLE-ON-TYNE.—Wanted, energetic, pushing, and experienced Dispenser and good all-rouud Countermau: outdoors. Apply, by letter, with photo (returned), stating salary, age, height, &c., J. C. Ritson, Blackett Street, Newcastle-on-Tyne.

NOTTINGHAM.—Wanted, industrious Assistant (outdoors), to assist Principal and supervise Branches: experienced preferred; good bookkeeper and good character indispensable; with view to partnership and ultimate succession in an exceptional business; capital not necessary. "Chemious," 12 Redcliffe Road, Nottingham.

PEMBROKE DOCK.—Junior (indoor) Assistant, about 21; must be well recommended; abstainer preferred. Apply, with full particulars, stating age, height, experience, photo (to be retnrned), salary, and when diseugaged, to J. H. Bowliug. Chemist and Dentist, Pembroke Dock.

SANDOWN, I.W.—Qualified Assistant chiefly for Dispensing, but able to make himself generally useful at the Retail. Applications, with refereuces and full particulars of experience, also age, height, and salary required (indoors), and photo, if possible, to G. Browu, Pharmacist, Sandowu, I.W.

SCARBOROUGH.—Wanted, a reliable aud good all-rouud qualified Assistant; permaneut; outdoors; not under 30; character as to sobriety and ability must bear strictest investigation. Apply, with photo (will be returned), stating salary required and full particulars, to W. S. Robson, Chymist, Scarborough.

SHEFFIELD.—Qualified Assistant (outdoors) wanted; no Sunday duty; Thursday afternoon holiday. Apply, with full partioulars and references, stating salary required, and if any experience in Agricultural trade, to Newhams Limited, 27 King Street, Sheffield.

SLOUGH.—Young Junior or Improver, for Light Retail and Dispensing; indoors. Seud photo and usual particulars to W. Dawson, High Street, Slough.

SLOUGH.—Assistant, qualified, indoors, Dispensing and Light Retail, wanted as soon as possible. Give age, experience, references, and salary required, personally or by letter, Griffith & Walden, Chemists, Slougb.

SOUTH AFRICA.—A smart, qualified Assistaut wanted, aged 23 to 30, for a high-class business; climate healthy. Apply, by letter, 68/70, c/o Office of THE CHEMIST AND DRUGGIST, 42 Caunon Street, E.C.

SOUTHEND-ON-SEA.—Wanted, smart Junior Assistaut; one used to Store trade preferred; indoors. Apply, with references, stating salary required, and also enclosing photo if couvenient, to Bell & Co., Pharmaceutical Chemists, High Street, Southend.

SWANSEA.—Junior or Improver, iudoors, for Dispensing, Prescribing, and Light Retail business; able to speak Welsh preferred. Apply, enclosing photo (which will be returned), stating height, experience, reference, and salary required, to Evan Thomas, Chemist, 33 Castle Street, Swansea.

TONBRIDGE.—Wanted, Assistant, for a good Retail aud Dispeusiug business. State age, height, and salary required, indoors, send photo (to be returned) to F. G. Abel, Chemist, Tonbridge, Keut.

WESTON-SUPER-MARE.—Qualified Assistant; aged about 22; accustomed to Dispensing and Light Retail. Seud photo and full particulars to Wing, Weston-super-Mare.

WOLVERHAMPTON.—Junior Assistant, indoors, of good address, abstainer; accustomed to Country trade; character must bear strict iuvestigation. Apply, stating age, height, salary required, when at liberty, with references, to Fleeming & Son, Pharmaceutical Chemists, Wolverhampton. Applications not answered within three days declined.

WELLS.—Wanted immediately, Junior Assistant (outdoors), able to Dispense, for first-class country Retail; hours light; no Sunday duty. Apply, stating age, height, salary required, &c., with carte, to R. J. Manning, Wells, Somerset.

WOLVERHAMPTON.—The Stores, 26 Queen Street, require a qualified Junior; must be quick, accurate, aud obliging; weekly half-day holiday, and uo Sunday duty. State age, refereuces, and enclose photo, as above.

CHEMIST wanted for Abroad; Minor qualifications; good salary to experienced man; must be absolutely steady; London experience preferred; 3 years' agreement; splendid climate. Apply, A. B. C. 476, c/o Messrs. Deacon's Advertising Offices, 154 Leadenhall Street, London, E.C.

SITUATIONS OPEN CONTD

RETAIL—continued.

SMART, active Assistant wanted immediately, not over 30, capable of taking charge of Branch; one used to good working-class neighbourhood preferred; permanency and comfortable berth to a suitable man. "Zilla" (48/10), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C

COMPETENT Assistant required; one used to Store trade preferred; must be efficient in Dispensing; age about 24. Full particulars to 48/13, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SURGICAL Instruments.—Wanted, Junior Assistant for above department, retail. Apply by letter, "Scalpel" (35/8), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED Assistant wanted, for a good-class Cash Pharmacy. State time spent in last two situations and usual particulars, photo (if convenient), to "Responsible," c/o Messrs. Wright, Layman, 50 Southwark Street, S.E.

QUALIFIED Assistant; indoors; one requiring permanency perferred. Please state experience, age, height, salary required, and enclose photo (if possible), to "Statim," c/o Messrs. Hearon, Squire, & Francis, 38 Southwark Street, S.E.

WANTED (indoors), a smart Junior; one able to Dispense. Apply, with full particulars, enclosing photo (to be returned), to X. Y. Z., c/o Messrs. Meggeson, Miles Lane, Upper Thames Street, London, E.C.

WANTED, a good Junior, about 21; indoors; 12 miles from London. Apply, personally, to Messrs. Flood & Co., Wholesale Druggists, 206 Borough High Street, London, S.E.

WANTED, at once, a steady qualified man as Manager of a shop in the East-end; married or single: in or out doors, as can be arranged: liberal terms to a man with first-class references; age about 27 to 30. Apply, B. (44/9), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a good Junior, about 21 (indoors), for a Light Retail and Dispensing business. Apply, stating full particulars as to age, height, salary, references, and enclose photo, to 46/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C. Vacancy for an Improver (indoors); no salary first twelve months.

WANTED, qualified Manager, for Branch in large town on South Coast, in a middle-class neighbourhood and rapidly increasing district (one accustomed to modern trade preferred); salary and commission, or to suitable man an interest would be given in the business. Apply stating full particulars, to "Pharmacist," c/o Sutton & Co., Chiswell Street, London.

WHOLESALE.

LONDON, N.E.—Travellers calling on Wholesale and Retail Chemists and Chemical Manufacturers, &c., can hear of good commission. Address, Bennett, Sons & Shears (Limited), 167 Kingsland Road, N.E.

LONDON, E.C.—Wholesale trade.—Wanted, a Junior Assistant in the Laboratory. Apply by letter only, stating age, previous experience, and salary required, to Geo. Cuthling, Wyman & Co., 58 and 59 Bunhill Row, E.C.

LONDON, N.E.—Traveller wanted, £1 per week and commission, for London and suburbs, who has a good connection amongst Store Chemists and Patent-medicine Vendors; no objection to one representing one good house. Address, Borthwick, 381 Kingsland Road, London.

WEST BROMWICH.—Travellers among Chemists, Stores, Co-ops., and Grocers in Scotland, Ireland, Lancashire, and Northern, Eastern, Southern Counties of England, kindly write us for addition, good commission; see Advertisement, Leader page; references, ground covered in first letter; 3 travellers doing splendidly. Bridgwater's (Limited), West Bromwich. Best put-up article on market.

BOOKKEEPER and Assistant Manager wanted by London Druggists' Sundries house; will be required to take charge in the absence of manager. Apply, by letter only, stating age, experience, and references, "Surgical" (47/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LABORATORY Manager wanted, with scientific education, practical experience of Pharmaceutical processes, Pill Coating, Perle and Tablet making; a permanency for an able man. Apply, with photograph, credentials, &c., stating salary required, 61/29, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER for Druggists' Sundries for Provincial house; must be a thoroughly capable and experienced man, with good connection. Apply, by letter only, giving full particulars, to "Traveller," c/o T. B. Browne's Advertising Offices, 163 Queen Victoria Street, E.C.

TRAVELLER on Commission wanted by Manufacturing Toilet Soap and Perfumery house of highest reputation; part North and Midlands; specially valuable additional to good traveller regularly working good connection. Apply, 47/19, Office of THE CHEMIST AND DRUGGIST 42 Cannon Street, E.C.

TRAVELLER wanted, by London Druggists' Sundries house, to call on Chemists in London and suburbs; a permanent situation for a gentleman. Apply, by letter only, stating full particulars as to age, connection, references, and previous occupation, "Enema" (47/15), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

JUNIOR or Improver (20); tall. Roberts, Post Office, Huyton Quarry Liverpool.

IMPROVER; aged 19; 4 years' experience. H. Clarke, West Marton Skipton, Yorks.

AS Assistant, or Manager; good Dispenser, &c. "Minor," 17 Dryden Street, Nottingham.

PART-TIME, Evenings or Afternoons; qualified. 21 Beauchamp Road, Lavender Hill.

IMPROVER in Laboratory, or with Analyst or Dispenser. H. S., 134 Southwark Street.

QUALIFIED; 24; City and West End experience. Evans, 95 Queutin Road, Lee, S.E.

LOCUM or Permanent; disengaged; aged 29; good Extractor. 2 Horton Street, Lewisham.

JUNIOR; 3½ years' experience; London, indoors preferred. Conyngham 1 Loraine Place, Holloway, N.

ASSISTANT; 23; 7 years' experience; outdoors preferred. Phillips, 19 Young Street, Kensington.

MANAGER or Senior; 28; qualified; 11 years' experience. Thomson, 154 Underhill Road, East Dulwich.

LADY Dispenser; qualified; disengaged; good references. C. M., 28 Stoke Road, Shelton, Stoke-on-Trent.

LOCUM; 26; qualified; first-class London experience; good Dispenser. "Chemist," 118 Kingsland Road, N.E.

DISENGAGED; aged 36; height 5 ft. 4½ in.; 13¾ years in last situation. Lelean, 40 Hauteville, Guernsey.

DISPENSER to Surgeon; town or country; 22; unqualified; quick accurate. S., 156 Clapham Road, S.W.

DISPENSER; aged 27; experienced; outdoors; disengaged. Thornton, 67 Clarendon Road, Croydon.

ASSISTANT; 24; unqualified; London, outdoors preferred. T. C Kilner, 39 Preston Place, Bradford, Yorks.

ASSISTANT, Locum, or Traveller; 15 years' experience; disengaged "Chemicus," Dunford House, Weymouth.

PART-TIME; disengaged mornings until 2 P.M., and all day Saturdays. 1 Berkeley Road, Crouch End, N.

QUALIFIED; several evenings a week free; near address. Davies 24 Compton Terrace, Highbury, London, N.

DISPENSER; 15 years' experience; temporary or permanent; disengaged. Browne, G. W. R. Surgery, Swindon.

PART-TIME; 22; London: studying for Minor; good experience A. Poxon, The Limes, Brownhills, near Walsall.

QUALIFIED; 24; 5 ft. 8 in.; disengaged; best Dispensing experience. Wren, Jessel Street, Mill Hill, Blackburn.

MANAGER, Assistant; 34; qualified; good Prescriber; London experience. "Extractor," 1 Collonade, Hawkhurst.

JUNIOR; 21; disengaged; good Dispensing and Retail experience London only. James, Market Street, Newtown, Mont.

RETAIL—continued.

JUNIOR; 19; 4 years' experience in good-class business; excellent reference. H. R. Gibbs, 4 Montpellier Walk, Cheltenham.

AS Assistant or Manager of Branch; aged 27; qualified. Address, "Extractor," Belle Vue Lodge, High Street, Cheltenham.

SENIOR or Manager; 26: qualified; outdoors; first-class experience; London preferred. S., 116 Church Street, Paddington, W.

LOCUM-TENENS, or Temporary Assistant; qualified; disengaged; good references. C. M., 1 Stratford Villas, Camden Square, N.W.

APRIL.—Good all-round man; 26: London and provincial experience; leaving branch management. H., 11 Elm Grove, Southsea.

MANAGER, Locum, or Assistant; registered; married; disengaged; references. J. L. V., 11 Brook Road, Ashley Road, Bristol.

OUTDOORS; whole or part time; Prescribing, ordinary Retail; disengaged. Morris, 189 St. Leonards Street, Bromley-by-Bow, E.

LOCUM; 25; qualified; London and country experience; desires London or suburban engagement. Allison, Westfield, Retford.

NO salary; indoor Surgery Assistant to medical man: quick Dispenser; in London. "Recipe," 4 Priory Terrace, Tonbridge.

EVENING (preferably), or day duty (24); sleep in; experienced, including Continental. "Statim," 27 Great Tower Street, London.

TO Executors.—Temporary Manager; disengaged; aged 35; experienced in working up businesses. H. E., 68 Park Street, Southend-on-Sea.

ASSISTANT or Manager; good references; Minor; thoroughly experienced; aged 40; disengaged March 28. Lea, March, Cambridge.

MANCHESTER.—Part-time evenings; 13 years' experience; small salary. J. Cernel, 54 Fenney Street, Higher Broughton, Manchester.

QUALIFIED desires London engagement; permanency; good Dispenser. "Radix," The Chemists' Club, Stonecutter Street, London, E.C.

MANAGER or Assistant; permanency; Minor: 29; City and West-end experience; outdoors; single. P. J. B., 38 Grey Coat Gardens, S.W.

JUNIOR; unqualified; 6½ years' experience; 23; 6 feet; suburbs preferred; disengaged March 26. Rawlins, 42 Richmond Road, Kingston, S.W.

YOUNG Chemist, with excellent references, knowledge of Homœopathy, Tablet-making, and Photography. "Rad.," 36 Prior Road, Forfar.

WANTED, in Edinburgh, Situation of Junior: 8 years' experience; good references, &c. Apply, Anderson, South Street, Forres, Morayshire.

ASSISTANT Chemist-Dentist; Operator, good Vulcanite Plate-work; assist Pharmacy occasionally. "Dentist," 28 Amersham Road, New Cross, London.

LOCUM-TENENS or Manager: qualified; good Dispenser and Prescriber: disengaged. B. Griffiths, Brynawel Cottage, Clydach, Swansea Valley.

MANAGERSHIP; permanent or temporary: qualified, experienced and energetic; West of England preferred. E Blewett, Post Office, Hayle, Cornwall.

AS Manager; good experience: qualified; a prospect of succession preferred. B. (45/10), c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER, outdoor Assistant; qualified; married; disengaged; Manchester district preferred; aged 35. "Centre," 17 Bold Street, Moss Side, Manchester.

MANAGER or Assistant; qualified; with view to succession; outdoors: aged 33. A. B. (43/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LADY Dispenser seeks engagement; Hospital or otherwise; would assist with books; excellent references. C/o Miss Bradbury, Ryde Dispensary, Isle of Wight.

ASSISTANT for May, June, and July, or part of that time; Dispensing business preferred, London or country; qualified. Marsh, 9 The Parade, Beckenham, Kent.

MANAGER (Temporary); Registered; town or country. Baker, 154 Fortess Road, N.W.

PACKER or at Counter; 25; excellent references. Stockwell, 16 Salisbury Street, Marylebone.

ASSISTANT; tall; 10 years' experience; good references; extractor; disengaged. "Zeta," 7 Odessa Road, Forest Gate, E.

DISPENSER and Bookkeeper; qualified; experienced; town or country. "Cortex," 25 Argyle Street, W.C.

STORES; Dispenser or Counter; qualified; 29. 48/19, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; disengaged; qualified; middle-aged; good London and provincial experience, &c. W., 13 West Square, S.E.

JUNIOR; aged 20; 4½ years' experience; country preferred; good experience desired. T. J. Parry, Midsomer Norton, Bath.

ASSISTANT; 35; Mixed business; small town preferred. 48/21, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SENIOR or Manager; qualified; good all-round experience. "Photo" (48/22), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR (20), 4 years' experience, desires situation in first-class business. 48/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER, 23, desires morning and evening re-engagement to Surgeon or Dispensary; exceptional references. "Celer," 30 Ashburnham Road, Kensal Rise, W.

RESIDENT Manager or outdoor Assistant: qualified; married; good Prescriber, Extractor, &c.; permanency; has furniture, &c. "Chemist," Grimsbury, Banbury, Oxon.

ASSISTANT; 25; 10 years' experience; unqualified; married; Dispense, Prescribe, Extract; good references. Wilkes, Brooklands, Chester Road, Whitchurch, Salop.

AS Manager, Assistant, or as Dispenser to Surgeon; quick and reliable; 25; 9 years' experience. E. (36/40), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

COUNTERMAN, Dispenser, or Traveller; thoroughly experienced; first-class references; outdoors; knowledge of Photography. "Tarax," 10 Aden Road, Taunton.

ADVERTISER wishes 6 hours' work daily; Extract, Dispense, Prescribe, &c. "Redfern" (47/30), c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; qualified; temporary or permanent; Dispenser, Prescriber, Extractor: town and country experience; excellent references. Hole, 12 Carr Street, Ipswich.

PART-TIME, in London, convenience for classes; April; first-class experience and references. "Minor" (44/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER: 39; single; qualified in Prescribing, Dispensing, or modern business; town or suburbs; disengaged; good references. Address, "Minor," 78 Wells Street, Oxford Street, W.

QUALIFIED; seeks engagement with Chemist and Dentist for the necessary period of latter profession; what offers? W. (45/3), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED, 24, wishes engagement; height 6 ft.; knowledge of Homœopathy; London preferred. Apply, "Taraxacum" (45/2), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; Scotch; 27 years of age; 5 ft. 7 in.; married; good appearance and address; over 10 years' first-class experience and references; disengaged; Manchester or suburbs. K., 16 Pemberton Street, Manchester.

QUALIFIED Minor, just disengaged; 38; permanent or otherwise; excellent Managing experience, ordinary and Cash; London and provincial references and testimonials. "Chemist," 122 Sandmere Road, Brixton, S.W.

DISPENSER seeks engagement in London or suburbs; Apothecaries' Hall qualification, Medallist in Chemistry and Pharmacy; abstainer; 6 years' experience; disengaged March 27. "Dispenser," 17 Brompton Road, London, S.W.

A PARISIAN medical gentleman, speaking English fairly well, desires an appointment as Assistant in a Chemist's (gratis), where he could by service improve his conversation in English. Gnibé, 26 Alma Square, St. John's Wood, N.W.

SITUATIONS WANTED CONTD

RETAIL—continued.

PHARMACIE FRANCAISE.—A qualified English Assistant, speaking French, and well acquainted with French Pharmacy, seeks re-engagement. Address, P. C. T. (42/34), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

SOUTH AFRICA.—Qualified Assistant, about to settle in South Africa, desires engagement; Kimberley or inland town; highest references character and ability. "Plumbum," c/o Edwards, Chemist, Upper Church Road, Farncombe, Surrey.

BRITAIN OR ABROAD.—Trained Druggist; German; 23; requires engagement; knows French, some English; good Salesman and Dispenser; knowledge of Counter-prescribing and Perfumery; best references. 41/6, c/o Office of The Chemist and Druggist, 42 Cannon Street, E.C.

WHOLESALE.

LABORATORY; experienced; Tablets, Galenicals. "Major," 11 South Street, Manchester Square, W.

TRAVELLER; Drugs or Sundries; London; disengaged. "Taraxacum," 29 Ifield Road, Fulham Road, S.W.

WHOLESALE preferred; good experience of Drug stores; aged 26. Easton, Stanley Bank, Steven Street, Shetford, Manchester.

YOUNG man (23) desires situation in Wholesale Drug warehouse; good experience and references. "Chemist," 11 Welbeck Street, Mansfield.

WHOLESALE.—Advertiser (30) requires situation in manufacture of Chemists' Proprietaries, or similar position. J., 24 Princess May Road, Stoke Newington Road, N.

WAREHOUSEMAN or Stockkeeper (Wholesale or Retail); 10 years' experience in large Retail business; excellent references. J. King, 43 Victoria Street, Brighton.

AS Assistant or Town Traveller in Wholesale house; steady, reliable, energetic; 14 years' Mixed Retail; North or Midlands; references. "Manager," 41B Bourn Road, Spalding.

TRAVELLER, calling on Chemists and Grocers, representing first-class English house in Ireland, wishes to meet with another who would pay part salary and expenses. "Medicus," 26 Stephen's Green, N.

DRUGGISTS' Sundries and Surgical Instruments; Advertiser seeks engagement as Manager or Buyer; 7 years in large City house. H. (41/39), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

YOUNG qualified Chemist seeks engagement; Galenicals, Pills, Tablets, Magnesias, Specialities; conversant with surgical instruments, scientific apparatus; best English and foreign markets. 45/6, c/o Office of The Chemist and Druggist, 42 Cannon Street, E.C.

UNITED STATES.—Drug and Chemical Agent in New York wants to represent British or Continental Merchants or Manufacturers; knows trade thoroughly; excellent connections and references. 42/23, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

LEDGER or Invoice Clerk; young man, 33 years of age, married, desires situation as above, or any position of trust; 12 years' good reference from last situation; thorough good experience in the Wholesale; rapid writer, quick and accurate at figures; moderate salary; disengaged. F., Office of The Chemist and Druggist, 42 Cannon Street, E.C.

WILL undertake to design, sketch out, and write up all Advertisements, Pamphlets, for a Wholesale Drug Firm, and advise them upon all matters Pharmaceutical, Medical, or will take charge of Laboratories engaged in preparing Animal Substances; can procure supply of same, &c.; experienced. M. 100, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

AGENCY, with London offices and warehouse in the heart of Patent Medicine and Soluble Essence trades. Gentleman able to command business, experienced, having extensive trade connection and commodious warehouse accommodation, seeks Agency for English or Foreign goods; only firms of good status need apply. 43/9, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

TRAVELLER.—A Medical man desires engagement with good firm; aged 29, height 6 ft.; good appearance and conversationalist; well-up in Materia Medica, Medicine, and Surgery; highest references. Address, "Medicus" (43/10), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

A CHEMIST (old-established) wishes to meet with a firm with some Specialities that could be advertised (window-display or otherwise) with advantage to both parties. Apply, 47/40, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

FOR Sale (Royalty or outright), an indispensable Novelty Toilet Requisite, now ready for being placed on the market; suitable for Chemists, Stationers, Ironmongers, &c.; sell by thousands at 1s. each; offers invited. Arthur Hiam, 8 Finsbury Park Road, London.

DAISY Window Attractions are so successful that Mr. Agar, chemist, South Bank, wrote to say that had he not occasionally taken it out, the window would most certainly have been pressed in by the crowd. If you want your window smashing thus, write for particulars. "Daisy," Leeds.

MESSRS R. C. MAZUMDAR & CO., Commission and Advertisement Agents, of Meerut, N.W.P., India, are prepared to undertake the advertisement of British trades, manufactures, and proprietary preparations in the principal towns in Punjab, N.W. Provinces, and Bengal, in the vernacular of the various Districts and Provinces. Correspondence invited; references.

CHEMISTS' Shop-fixtures.—Ranges mahogany drawers, with bevelled-edge glass labels and out-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-case fronts; wall-cases; bent-front and flat-top counter-cases; counter-desks; tooth-brush cases; complete shop-rounds, &c.; every requisite for chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 Manchester Street, Liverpool.

TO CHEMISTS AND DRUGGISTS.—The Koko Maricopas Company (Limited), 11 Gray's Inn Road, London, will supply a Flag and Pole (free) to be fixed over the shop, with the words in white letters, "Koko for the Hair," and with the name, &c., of Chemist underneath; this is found to be a splendid advertisement for Chemists and Druggists; a beautiful picture of Miss Ellen Terry (framed, 22 in. by 16 in.) can be had on application either to Messrs. Butler & Crispe, 82 Clerkenwell Road, London, or to the Company at above address; write for particulars.

PHOTOGRAPHIC MOUNTS.—Cartes, Bristol, 4s.; cartes, enamelled, 5s. per 1,000; new plate, sunk mounts, white tint, pasted on grey board, 8 × 6, 4s.; 10 × 8, 4s. 6d.; 12 × 10, 6s.; 16 × 12, 10s.; 18 × 14, 16s.; 20 × 16, 18s.; 25 × 19, 24s. per 100. Special discount for quantities. Cabinets, Bristol, 12s.; cabinets, enamel, 15s. per 1,000; gold bevel-edge mounts—viz., cartes, Bristol, 12s.; cartes, enamel, 14s.; cabinets, Bristol, 22s. 6d.; cabinets, enamel, 27s. 6d. per 1,000. Special 10 × 8 chocolate, Oxford lines, 25s. 1,000; the finest made in the market at the price. Samples free from Edward Peck, Wholesale Photographic Chemist, East Dereham, Norfolk.

CHEMISTS'-FITTINGS.—Complete set, comprising handsome wall-fitting, 14 ft. long, with plate-glass mirror, poison-cupboard, bevelled-glass labels to drawers, and cut crystal knobs, shelving-pilaster, cornice, locker, &c.; 10-ft. mahogany wall-case, with pilasters and carved supports to match, fitted with movable shelves; 12-ft. mahogany serving-counter, with plate-glass casing in front, and fitted with counter-drawers, including label, paper, and till ditto; plate-glass perfume-case and counter-desk; mahogany and beut plate-glass counter-case, 6 ft. long, with display and serving shelves; plate-plass mirror-centre dispensing-screen, with cases on either side; and plate-glass counter and spouge-case, with marble top under; 4-lb. scales and brass weights, verified. All modern, in excellent condition, and ready for immediate use. Price, £75 the lot, or would separate. Philip Josephs, 54 Old Street, City Road, London, E.C.

CHEAP GOOD PERFUMES.

QUINTESSENCES (Rouse's) enable the Retail Chemist to make his own Perfumes without trouble at a cost of 4d. per oz.; a booklet, giving full particulars, together with samples of labels, sent free on receipt of post-card. Rouse Bros., Man'f'g Perfumers, 61 Charlotte Street, Tottenham Court Road, London, W.

PRELIMINARY AND MINOR.

STUDENTS! Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Notes on Dispensing, 1s., post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.

Exchange Column—Bargains

The Circulation of "The Chemist and Druggist" Supplement on March 27 will exceed

14,000

Take advantage of it by advertising Old and Surplus Stock, which can be turned quickly into cash by this means, and Apparatus, Books, &c., can be disposed of to advantage. The whole Trade reads this page.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, MARCH 25, at 5 P.M.; but send earlier if you can.

BARGAIN NUMBER,

MARCH 27, 1897.

APPARATUS.

Tate's double-action air-pump and glass receivers; what offers? CLARKE, Chemist, Woburn, Beds.

BOOKS AND PERIODICALS.

"Minor"; how to pass easily! cheaply! well! 1 stamp. LAWS, Chemist, Streatham.

Potter's "Pharmacy"; "United States Dispensatory"; Attfield's "Chemistry"; "Art of Dispensing"; Bentley's "Botany"; Garrod's "Materia Medica"; latest editions; offers. 42/37, Office of the *C. & D.*

What offers? "B. P.," '85; Squire's "Hospitals," 4th edition; "Martindale," 5th edition; Squire's "Companion," 13th edition; Attfield's "Chemistry," 1869. CARTER, Chemist, Eastbourne.

DRUGS AND CHEMICALS.

7 lbs. genuine Bermuda arrowroot, 6*s.* the lot. PERFECT, Chemist, Harlesden.

FORMULÆ.

Book of 130 well-tried recipes for chemists; general, remedial, veterinary, toilet; post free, 1*s.* 6*d.* TULLY, Chemist, Hastings.

Money-making recipes.—"Cherry Foam," elegant liquid dentifrice, very nice, keeps well; "Hairourl," most popular preparation, may be honestly recommended, keeps hair in frizz, best in market; Dr. Taylor's "Carbolic Dentifrice," an ideal tooth-powder, leaving delicious after-taste; recipes 2*s.* 6*d.* each, 3 for 5*s.*; 100 labels for either above, 1*s.*; post free. TOM BROOKS, Chemist, Hornsey, N.

OPTICAL AND PHOTOGRAPHIC.

Thirty excellent *x*-ray lantern-slides, 6*d.* each; list stamp. PICKERING, Chemist, Leicester.

Radiography.—Five quart Bunsen cells, 4-inch coil, focus-tube, and clamp, £9. J. W. STAINER, Folkestone.

Second-hand cameras.—2 No. 1 Frenas, 1 No. 2 kodak and case, 1 pocket kodak, Griffith's enlarging, reducing, and copying apparatus; what offers? HETHERINGTON, Tillicoultry.

Magic Lanterns, second-hand; Wrench's telescopic triple and biunial; Ladd's oxyhydrogen microscope; grand biunial patent pamphengos oil-lantern, gives 14-ft. picture; slides and effects; bargains. HUGHES, Brewster House, 82 Mortimer Road, Kingsland, N.

SHOP FITTINGS.

For sale.—Complete mahogany fittings, counters, cases, drawers, bottles, &c. TAYLOR, 144 High Road, Kilburn, N.W.

Chemist's high-class shop-fittings for sale; on view at Brixton. Particulars of MESSRS. ORRIDGE & Co., 32 Ludgate Hill, London, E.C.

Bent plate-glass counter-case, mirror back, 3 ft. 6 in. long; also 2 show-jars, 21 in. high; good condition. HANSON, 36 East Dulwich Road.

For sale, through disposal of lease, chemist's handsome mahogany fittings, counter and wall cases, carboys, bottles, lamp, &c. HALL, 3 Dynham Road, West Hampstead.

Must be sold at once, leaving the town, entire fittings of chemist's shop, including 3 ranges (140) mahogany-fronted drawers, with shelving and cornice above and lockers below; 2 mahogany-top serving-counters; 2 wall-cases; desk (Maw's), with case-front; together with a number of shop-rounds, ointment-jars, &c.; no reasonable offer refused. Apply, MEGGINSON, Bridge Street, Goole, Yorks.

PROPRIETARY ARTICLES.

Quantity various sizes Dobson's black-leg drinks; what offers? 46/18, Office of the *C. & D.*

Ten 6*d.* Albion milk-and-sulphur; 3 Nichol's sanitary soap; 3 7½*d.* Brandreth's pills; 1 8*d.* Rogers's nursery lotion; 2 No. 4 perles, 8 harroline, 4 Smith's arsenic pills, 1 Doughty's voice-lozenges, 3 terebene, 2 chemical plate-cloths, 5 sanitary rose powder, 2 Hyde's orange-plume egg-paste, all 1*s.*; 1 Reinhardt's castor-oil, 3 Rackham's liver, 3 Lawrence's herb, 1 fruit, 3 King's dandelion pills, 1 Hall's health-renewers, 1 Jowerth's, 3 Williams's worm-lozenges, all 1*s.* 1½*d.*; 2 morrhuol, 3 moonseed bitters, 2 Epps's curacene, 2 Godfrey's extract of elder-flowers, 1 Jackson's febrifuge, all 2*s.* 9*d.*; 1 4*s.* 6*d.*, 2 11*s.* Rooke's solar elixir; 3 4*s.* 6*d.* Holden's vinum vitæ; 1 kehotah tea; 5 Cooper's dip: 2 floriline. Send offers to WRIGHT, Chemist, Hebden Bridge.

MISCELLANEOUS.

Maw's reeded water-bed, 36 by 48; good as new; what offers? BÜCHER, Truro.

Maw's air-mattress, 72 by 36; good condition; price £3. KEMP, Chemist, Chester.

Fifteen gross opal pots, surplus stock, 3-oz., at half-price; samples free. "OPAL," 149 Duke Street, Liverpool.

Wenham lamp, with handsome Doulton-ware pot; good working order; cost £5. Offers to MATTHEWS, Chemist, Leyton.

What offers, cash, for 1 gallon of very choice perfume; also 6 doz. 1 and 2-oz. stoppered-bottles? J. PLUMTREE, 35 Gipsy Hill, Upper Norwood, London.

Cheap Job Lines.—Silk-top Puffs, finest quality, 2*s.*, 2*s.* 6*d.*, 3*s.*, also Mammoth Beauties, 7*s.* 6*d.* doz.; Eucalyptus Cigarettes (12), 6*s.* doz.; London Tooth-brushes, 3 doz. 8*s.*, sample doz. 3*s.*; all carriage paid. TOM BROOKS, Chemist, Hornsey, N.

Typewriter (Caligraph, No. 3), with all latest improvements, for sale, almost new; address, with cash offers; also Jahncke's patent metallic boxes (21 doz.), and a portable fire-escape (Anidjah's) for small factory. Particulars, A. C. (68/55), Office of the *C. & D.*

WANTED.

First-class fittings, in good condition. Full particulars, 46/27, Office of the *C. & D.*

"London Pharmacopœia," 1851 edition. GRIFFIN, 68 George's Place, Canterbury.

Counter-case, about 46 in. high, 30 wide, 5 deep; glass doors. STANLEY, Southwell, Notts.

Fittings for chemist's shop, also recess-bottles, pots, &c.; must be in good condition. Apply, R. H., 31 Dodge Street, Liverpool.

Mahogany counter and desk, suitable for large office, with set drawers preferred; good condition. Full particulars, SMITH, Chemist, Titchfield, Fareham.

Green's "Botany"; Muter's "Practical Chemistry"; Taylor's "Chemistry"; Southall's "Materia Medica"; latest editions; state price. BELLAMY, 69 Bath Street, Ilkeston.

Principal Contents of "The Chemist and Druggist."

A NEW test for the purity of beta-naphthol is described on p. 421.

IT will pay to look through the Novelty columns beginning on p. 439.

FORFARSHIRE promises to provide the newest chemists' association (p. 414).

A CHILD has been choked at Lincoln by swallowing the teat of a soother (p. 413).

AN unregistered dentist has been fined at Edinburgh in respect to a door-plate (p. 428).

THE Apothecaries' Hall, Dublin, has again secured the medicine-contract for troops in Ireland (p. 414).

THE Irish Pharmaceutical Council last week arranged the details for the award of medals to licentiates (p. 419).

THE names of the members of the Commission charged with the revision of the French Codex are mentioned on p. 415.

WE comment on the details of Mr. Kearley's Bill for the amendment of the law relating to the adulteration of food and drugs on p. 430.

WE now award the prizes in our DIARY coupon competition—viz., one prize of five guineas, five of one guinea each, and 18 book prizes (p. 425).

THE Kingston Magistrates refuse to renew the "off" wine-licence to Parkes' drug-stores, because they have not confined sales to medicated wines (p. 412).

THE Chancellor of the Exchequer considers that employers should try to learn the private means of their employés before making the income-tax return (p. 439).

A. DE PLANK, the man charged with stealing syphons, and afterwards selling them to a North London chemist, has now been found, and has been committed to the sessions (p. 412).

THE conditions under which medicines are admitted into Japan, so far as their quality is concerned, are detailed in the article on p. 433, which shows remarkably careful inspection.

A GOODWILL case came before the Judge at the Manchester Assizes, the question involved being whether a chemist's goodwill was worth one year's or three years' purchase (p. 428).

THE annual dinners of the Chemist' Assistants' Associations of London and Edinburgh, of the Bristol Pharmaceutical Association, and of the Mineral-water Bottle Exchange are reported (p. 420).

MR. MARTINDALE'S remarks at Bloomsbury Square on Tuesday evening regarding preservatives for medicines were confined largely to extemporaneous pharmacy, but were useful nevertheless (p. 418).

SEVERAL Glasgow doctors' shop-assistants have been fined for selling poisons, and several cases were not proceeded with. The reports are interesting. A female shop-assistant in Blantyre has also been fined (pp. 427-8).

THE partnership accounts between the late Mr. S. M. Burroughs and Mr. Henry S. Wellcome have again been before the Court, owing to the arbitrator's award not being quite in accordance with the agreement (p. 426).

WE give on p. 432 a general summary of the Pharmaceutical Society's accounts since 1868, showing that the examinations have enriched the Society, and that the demand for an increased Minor examination fee is unwarranted.

THE amalgamation of the Apollinaris and Johannis Water Companies, with a capital of 3,230,000*l.*, is now complete. It is also again rumoured that Messrs. Blondeau et Cie.'s business is to be converted into a limited company (p. 440).

MR. JOHN C. UMNEY has now examined, morphologically, histologically, and chemically, all the commercial fennels, and in a communication to the Pharmaceutical Society shows what kinds should only be used in pharmacy. The varying composition of the oils is notable (p. 417).

At the Counter.

NEAR 'Appy 'Ampstead these things are asked for:—"St. Peter's skin," "confectioner's senna," "little-esh pdr.," "ventilated oil," "methylated wool," and "compared chalk." Mr. Nicholson sends them from his scrap-book.

"GUM QUAKER" is the only novelty we find in a Hull collection of orders received. "Scotch and Hill" is how it is called in the Portsmouth district. "Odieglone oent" is an Irish example

"3 PENNYWORTH of Raw Rust" was asked for at Birkenhead.

"SCRUBB'S pneumonia" is wanted at Torquay.

"FANNY GREIG" was asked for at Johnston & Adams's, Dundee, who satisfied the request with fenugreek. From the same quarter we hear of "artistic acid" and "Spare ma Sity."

THESE smack of the heavy trade:—"Vindic Brown," "Burnse Anna," "Stockie," "Shalack," "Burncania," and "Salmok." They were all supplied at Johson's, Dundee.

"HARRY MATICKS Spirits of Armonier and tinxture of Alurian," and "1 sleper eleme for a baby, it sore a box of borax and onee and a box of brots of senner please sir," are orders sent by Mr. Sherwin, of Derby.

"1 COCKDALE for hoping cuffs." This does not mean something for starching linen, but cochineal for whooping-cough. Mr. W. E. White, of Gainsborough, had to decipher the order.

FROM Hastings:—1*d.* worth strong ambitious pills.

YORKSHIRE ZOOLOGY.—Little Girl: "Please, I want a 7½*d.* box o' Whelpton's pills—them wi' t' whelp on." Chemist (after recovering): "Yes, my dear, but that whelp is a lion." Surprised little girl hands over 6½*d.* in payment, and says she "will take a lion."

WILD IRISHMAN sends from South Leinster orders for 1D pennyworth of The deston of pepperment, 6D Sideagasit, and 1 worth Thinkeracaspo.

"SALUVATY," "Syrop of Quils," and "Eckepicy Anie Wine" are Sheffield struggles.

"LICKITIE PAPATINE" is one for Mr. John Morgan Richards to wrestle over. A Totnes subscriber succeeded in satisfying the writer of the order.

"A POWDER with two e's in it, please." This was asked for from Mr. Vennal, of Cranleigh, Surrey.

FROM Sheffield we have orders for "Buross," "oil of catterpult," and "Assanna-chips."

DARKENING COUNSEL.—"Hadn't you better call another physician?" said the wife to the young doctor who was treating her husband. "Just for consultation, you know." "No, ma'am," he replied. "My ideas are confused enough already."

Messrs. J. HENRY SCHRODER & CO. are authorised to receive Subscriptions for the Capital undermentioned.

The SUBSCRIPTION LIST will Close at or before 4 o'clock on Monday, the 15th instant.

APOLLINARIS & JOHANNIS,

LIMITED.

Incorporated under the Companies Acts, 1862 *to* 1893.

SHARE CAPITAL - £2,380,000,

TO BE ISSUED AS FOLLOWS:—

19,000 Ordinary Shares of £10 each	£1,190,000
19,000 Five per Cent. Cumulative Preference Shares of £10 each...	1,190,000
Total Share Capital	£2,380,000

Four per Cent. Irredeemable Debenture Stock £850,000,

To be secured by a Trust Deed in favour of Trustees.

Interest on the Debenture Stock will be payable half-yearly, April 1 and October 1, the first payment on October 1, 1897.

The Preference Shares are entitled to a cumulative preferential dividend of 5 per cent. per annum, payable out of the profits of the Company from March 31, 1897, and are entitled to rank on the property and assets of the Company in preference to the Ordinary Shares.

Of the above 18,250 of the Ordinary and 23,250 of the Preference Shares and £250,000 of the Debenture Stock will be issued to the Vendor in part payment of the purchase money. There are in existence £35,000 Debentures of Johannis, Limited (hereinafter mentioned), and the holders of such Debentures have the right to apply for and receive in exchange for their Debentures an allotment at par of the above Debenture Stock. The remainder of the Share Capital, and the balance of the Debenture Stock, including any not allotted in respect of the aforesaid Johannis Debentures, are now offered for public subscription.

The payments for each class of security will be as follows:—

DEBENTURE STOCK.

£5 per cent on Application.	
20 ,, ,, Allotment.	
75 ,, ,, April 13, 1897.	
£100	

PREFERENCE AND ORDINARY SHARES.

£0 10 per Share on Application.	
2 0 ,, ,, Allotment.	
7 10 ,, ,, April 13, 1897.	
£10 0	

TRUSTEES FOR THE DEBENTURE-STOCK HOLDERS.

The Right Hon. LORD BURTON.
BARON SCHRODER.
WALPOLE GREENWELL, Esq.

SOLICITORS FOR THE TRUSTEES.

Messrs. HOLLAMS, SONS, COWARD & HAWKSLEY.

DIRECTORS.

FREDERICK GORDON, Esq., President (Chairman of the Gordon Hotels (Limited).

Viscount DUNCANNON, C.B. (Director of the London Brighton and South Coast Railway Company).

. LAWSON JOHNSTON, Esq. (Vice-Chairman of Bovril, Limited).

ALFRED R. HOLLAND, Esq. (Director of the Gordon Hotels, Limited).

. H. TOD, Esq. (Director of the East and West India Dock Company).

JULIUS C. PRINCE, Esq., Vice-President and Managing Director (now and for many years Director and General Manager of the Apollinaris Company, Limited).

SECRETARY.

Mr, C. W. MANN, 4 Stratford Place, Oxford Street, W.

BANKERS.

Messrs. GLYN, MILLS, CURRIE & CO., 67 Lombard Street, E.C.

BROKERS.

Messrs. W. GREENWELL & CO., 2 Finch Lane, E.C.

SOLICITORS.

Messrs. MARKBY, STEWART & CO., 57 Coleman Street, E.C.

Messrs. EDELL & GORDON, 4 King Street, Cheapside, E.C.

AUDITORS.

Messrs. TURQUAND, YOUNGS, BISHOP & CLARKE, 41 Coleman Street, E.C.

Messrs. PRICE, WATERHOUSE & CO., 44 Gresham Street, E.C.

This Company is formed for the purpose of acquiring and amalgamating under one management the well-known businesses of the Apollinaris Company (Limited), in connection with the sale of Apollinaris Water, and of Johannis (Limited), in connection with the sale of Johannis Water.

The Apollinaris Spring, situate at Neuenahr, Rhenish Prussia, is vested in the Actien Gesellschaft Apollinaris Brunnen, vormals Georg Kreuzberg, and the Johannis Spring, situate at Zollhaus, Nassau, is vested in the Actien Gesellschaft Johannis Brunnen. The contract of purchase com-

APOLLINARIS & JOHANNIS, LIM.

PROSPECTUS—*continued.*

prises the whole of the shares in each of these German Companies and in the Apollinaris Company (Limited). The contract of purchase also includes the undertaking of Johannis (Limited), as a going concern, and its business and assets. The shares referred to will be vested in the Trustees for the Debenture-stock Holders upon the terms of a Trust Deed, which will also give a floating charge upon all property and assets of the Company.

It is hardly necessary to refer here to the merits of either Apollinaris Water or Johannis Water; the former is known and can be obtained in almost every part of the civilised world, and the latter, only more recently introduced, has met with extraordinary success.

The certificate of the Accountants is as follows :—

"To the Directors of Apollinaris and Johannis (Limited).

"Gentlemen,—In accordance with your request we have examined the books and accounts of the Apollinaris Company (Limited), of London, and the Actien Gesellschaft Apollinaris Brunnen, in Germany (the latter representing the springs and the former the distributors), for the year ending December 31, 1895, and find that after charging expenses of working and advertising, but before deducting interest on Capital, Debentures, or Loans, Directors' fees, and Managing Directors' salaries, the profits of the two undertakings for that year amounted to £157,016 3*s.* 5*d.*

"The accounts of the Apollinaris Company (Limited), of London, for the year 1896 are not yet complete, but we are able, from an examination of the books to report that the sales for that year exceeded those for the year 1895 by a large number of bottles, taking all sizes together. The profits of the Actien Gesellschaft Apollinaris Brunnen, in Germany, were greater for the year 1896 than those of the preceding year.

"TURQUAND, YOUNGS & CO.

"PRICE, WATERHOUSE & CO.

"London, March 9, 1897."

According to the audited and published accounts of Johannis (Limited) the profits for the year ending December 31, 1895, before deducting interest on Capital and Debentures or Directors' fees, or the cost of advertising (which cost was excluded and treated as preliminary expenses), amounted to £14,286 3*s.*

It will thus be seen that the combined profits of the Apollinaris Company and the Apollinaris Brunnen for the year ending December 31, 1895, together with the above-mentioned sum of £14,286 3*s.* from the Johannis Company, amounted to £171,302 6*s.* 5*d.*; but, as a result of the amalgamation of these businesses, a large saving may be anticipated in respect of management, advertising, and other expenses—a saving which will, in the opinion of the Directors, increase the net profits of the Company in the first year alone by the sum of £16,746 12*s*, so that, without taking into account any increase of sales, the net revenue may be fairly estimated at £188,048 18*s.* 5*d.*

It is evident from the increase of the sales by both Companies that the public are recognising the great value of these waters as pleasant and wholesome beverages, and that in the future, as in the past, demand will continually increase, while consumers and traders who have hitherto been able to obtain an interest in Johannis alone will also have the opportunity of participating as shareholders in the profits of the infinitely larger Apollinaris Company (Limited), which has hitherto been a private Company. The progress of that Company has been most remarkable, as appears from the following return of bottling of Apollinaris Water, furnished by the General Manager of that Company from its foundation :—

1874	1,798,550	bottles	1885	10,256,255	bottles
1875	2,846,050	„	1886	10,374,886	„
1876	3,974,491	„	1887	11,894,533	„
1877	4,016,216	„	1888	12,720,029	„
1878	7,354,743	„	1889	15,822,136	„
1879	4,838,203	„	1890	18,017,088	„
1880	8,051,121	„	1891	17,526,556	„
1881	10,218,873	„	1892	16,989,199	„
1882	10,301,262	„	1893	18,567,606	„
1883	9,508,864	„	1894	17,623,657	„
1884	10,361,268	„	1895	19,526,290	„

The return of bottling for the year 1896 will show a large additional increase.

Johannis (Limited) was only formed in January, 1895, but the quantity of bottles sold is stated by the Secretary of that Company to have continuously increased, and in the year 1896 to have amounted to 4,270,713 bottles, being an increase of 796,739 bottles over 1895.

The purchase price is £3,230,000. The Vendor covenants with the Company to pay all the preliminary expenses up to the first general allotment, and that the profit to him on the sale contract shall not exceed the sum of £13,500.

The Vendor to the Company is Mr. Frederick Gordon, others of the Directors being also interested in the purchase money in respect of their holdings either as Shareholders or Directors of the old Companies or one of them.

The purchase contract is dated March 10, 1897, and is made between Frederick Gordon of the one part and the Company of the other part. The businesses will be taken over as going concerns as from March 31, 1897. In addition to the existing trade contracts, which are too numerous to specify, and which will be taken over by the Company, the Vendor has entered into the following contracts:—(1) Contract, dated March 1, 1897, between Johannis (Limited) of the one part and Frederick Gordon of the other part; (2) contract, dated March 4, 1897, between Edward Steinkopff of the one part and Frederick Gordon of the other part; (3) contract, dated February 18, 1897, between George Smith of the one part and Frederick Gordon of the other part; (4) contract, dated February 18, 1897, between Frederick William Harris of the one part and Frederick Gordon of the other part; (5) contract, dated February 17 and February 18, 1897, between Georg Itschert and Leopold Kreuzberg of the one part and Frederick Gordon of the other part; (6) contract, dated March 8, 1897, between Frederick Gordon of the one part and Messrs. J. Henry Schröder & Co. of the other part. Contracts have also been entered into by Mr. Gordon with numerous parties guaranteeing the subscription of the capital. Subscribers will be held to have had notice of all such trade and other contracts, and to dispense with further compliance with Section 38 of the Companies Act, 1867.

The Certificate of Messrs. Turquand, Youngs, Bishop, and Clarke and Messrs. Price, Waterhouse & Co., the Form of Trust Deed, and copies of the purchase contract, and of the Memorandum and Articles of Association can be inspected at the offices of the Solicitors of the Company and of the Solicitors of the Trustees.

Applications for Preference and Ordinary Shares and Debenture Stock must be made on the form which accompanies the Prospectus, and forwarded with a remittance for the amount of the deposit to Messrs. J. Henry Schröder & Co., 145 Leadenhall Street, London, E.C.

If no allotment is made the deposit will be returned in full, and where the amount allotted is less than that applied for the balance will be appropriated towards the payment due on allotment, and any excess returned to the applicant. Failure to pay any instalment when due will render the previous payments liable to forfeiture.

Messrs. Glyn, Mills, Currie & Co. will act as Registrars and Transfer Agents to the Company.

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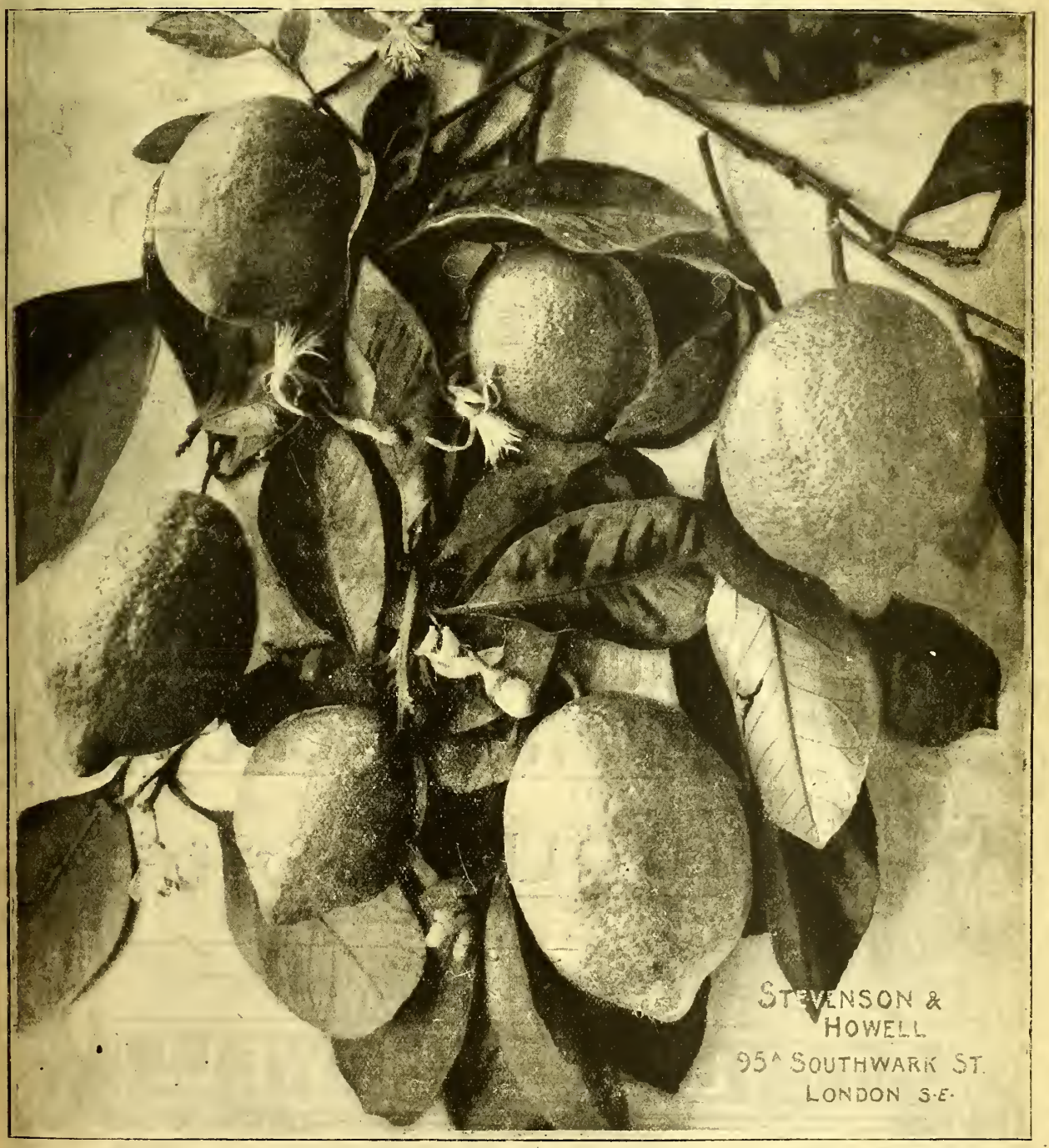

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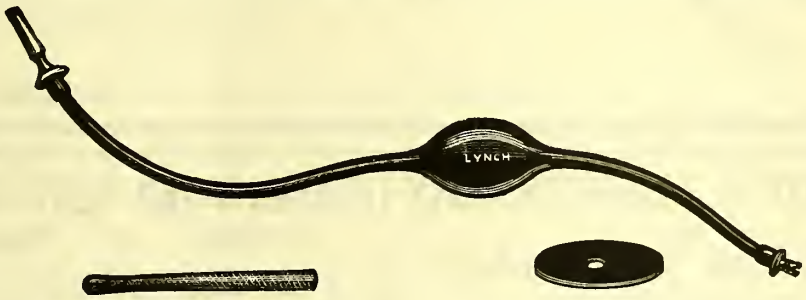

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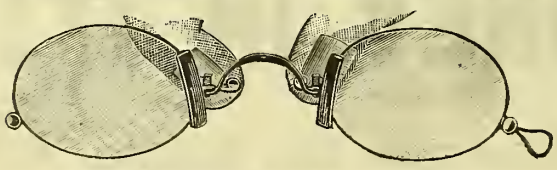

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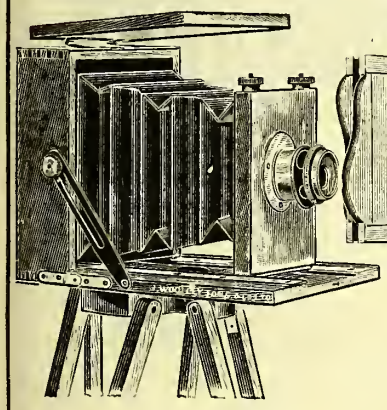

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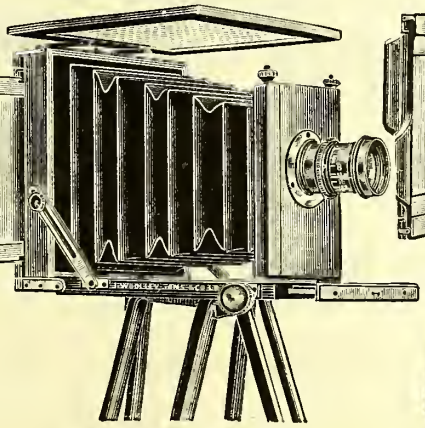

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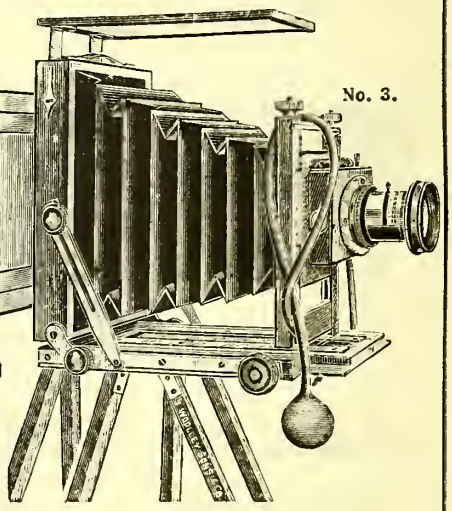

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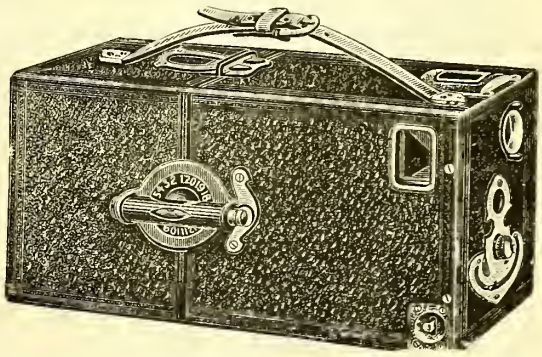

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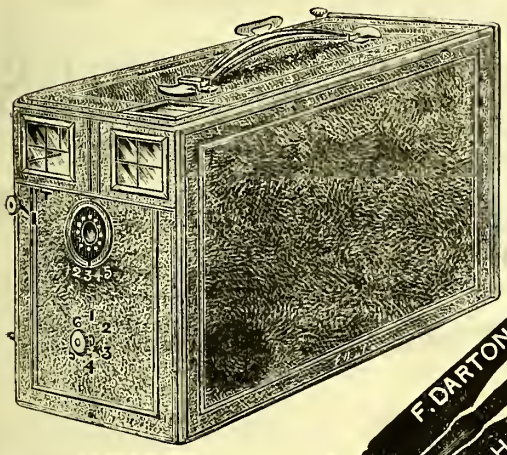

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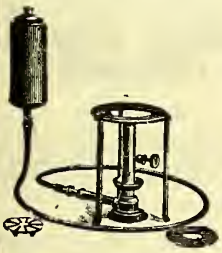

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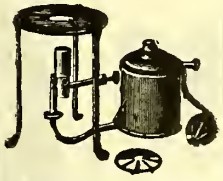

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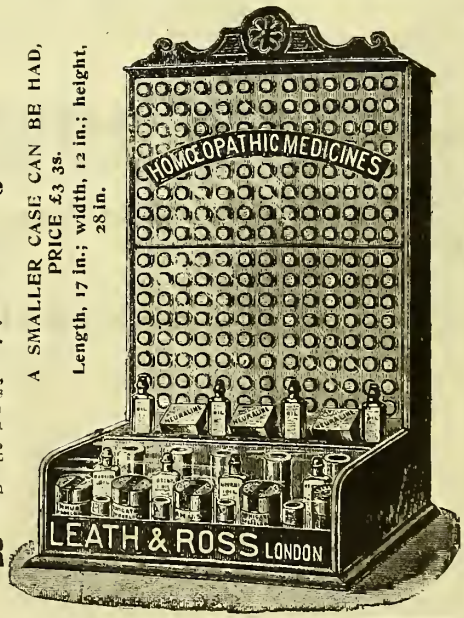

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BY PATENT PROCESS.

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CHLORATE OF POTASH (Throat Hospital).	DIGESTIVE TABLETS.	PEPPERMINT (Extra Strong).	STOMACHIC CANDY.
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17 15

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For Delicate, Sensitive, Irritable Skins.

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Keeps the Complexion Clear.
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Made with Vinolia Soap basis.

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Delicately Perfumed.

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FOR ITCHING, FACE SPOTS, AND THE SKIN IN HEALTH AND DISEASE.

RETAIL PRICES, 1/1½, 1/9, 3/6, 6/-

TRADE PRICES—
10/8, 16/9, 33/4, 57/8 per dozen.

1/-

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FOR REDNESS, ROUGHNESS, TOILET, NURSERY, &c.

Does not block up the pores of the skin.

In White, Pink, and Cream Tints.

RETAIL PRICES, 1/-, 1/9, 3/6, 6/-

TRADE PRICES—
9/2, 16/-, 32/-, 54/9 per dozen.

1/-

VINOLIA LIQUID DENTIFRICE.

Whitens the teeth beautifully. Soothing to tender gums and sensitive teeth. Free from injurious chemicals.

RETAIL PRICES, 1/-, 1/9.
TRADE PRICES, 8/-, 14/- per dozen.

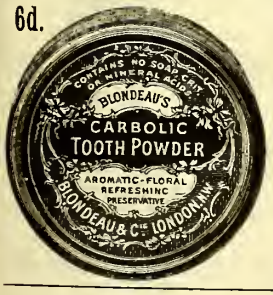
6d.

PREMIER VINOLIA DENTIFRICE.

Keeps the teeth ivory white, the breath sweet, and the gums strong.

	Retail Prices	Trade Prices per doz.
In Metal Boxes ..	6d., 1/-	.. 3/3 & 6/-
„ Glass Bottles..	6d.	.. 3/3
„ lb.-Tins ..	4/3	.. 34/-

6d.



BLONDEAU CARBOLIC TOOTH POWDER.

Contains no soap, grit, or mineral acids.

In artistic round metal box.

RETAIL PRICE, 6d.
TRADE PRICE, 3/3 per dozen.

2/6

VINOLIA DENTIFRICE.

Aromatic, Tonic, Refreshing, Preservative.

Entirely free from the least trace of grittiness or alkalinity.

In finest hand-made Old English Glass Bottles.

	Retail Prices	Trade Prices per doz.
English,	2/6, 7/6, 13/6	22/10, 68/6, 123/-
American,	1/6, 4/6, 7/6	13/9, 41/-, 68/6

1/-

VINOLIA SHAVING SOAP.

Causes no blotches under the chin. Makes shaving a pleasure.

	Retail Prices	Trade Prices per doz.
*PREMIER (Flat Cakes)	1/-	7/-
TOILET „ „	2/-	18/4
VESTAL „ „	2/6	22/10

* Supplied in Silver-blocked Celluloid Case, or Plain Porcelain Dish, with Lid.

6d.

VINOLIA SHAVING SOAP.

(STICKS.)

Vinolia Shaving Soap gives a profuse creamy lather free from excess of alkali, and can be recommended as a shaving soap for the most sensitive skin.

	Retail Prices	Trade Prices per doz.
PREMIER (In Cardboard Case)	6d.	3/6
TOILET (In Silver Metal Tubes)	1/-, *1/6, 2/6	9/2, *13/9, 22/10
VESTAL (In Silver Metal Tubes)	2/-	18/4

* Also supplied in Golden and Ivory-like Cases

1/-

VINOLIA SHAVING FOAM.

CREAMY. REFRESHING.
PURE. EMOLLIENT.

Vinolia Shaving Foam, while affording a clean shave, leaves the skin soft and agreeably cool.

In Collapsible Tubes.

	Retail Prices	Trade Prices per doz.
TOILET ..	1/-, 1/6	9/2, 13/9
VESTAL ..	2/6	22/10

LYPSYL

(FOR THE LIPS).

6d. 6d.

MADE IN ROSE-RED AND WHITE TINTS.

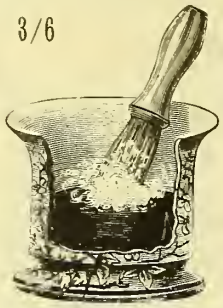
	Retail Prices each	Trade Prices per doz.
In Fluted Silver Metal Tube, small ..	6d.	4/-
Ditto large ..	1/-	8/-
In Ivory-like Tube	9d.	6/-

The above Trade Prices are subject to usual discounts.

BLONDEAU ET CIE., Malden Crescent, LONDON, N.W.

VINOLIA PRICE LIST—(continued)

3/6



VINOLIA HAND-PAINTED SHAVING VASE.

	Retail prices	Trade prices per doz.
With Lid, and a Cake of Vinolia Toilet Shaving Soap ..	3/6	32/-
Without Lid	3/-	27/6

4/6

LAIT VINOLIA.

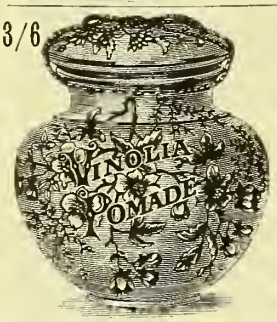
FOR THE COMPLEXION.
(Non-Medicinal.)

Keeps the skin beautifully soft aud of a velvety appearance.

In Elegant Porcelain Vase.

RETAIL PRICE, 4/6
TRADE PRICE, 41/- per dozen.

3/6



VINOLIA POMADE.

Natural to the Hair and Scalp.
Imparts a fine silkiness to the hair.

	Retail prices	Trade prices per doz.
In White Opal Vase.	2/-	16/-
In Antique Porcelain Vase ..	3/6	32/-

1/6

VINOLIA EAU DE COLOGNE.

Fragrant, Refreshing.
As fine as can possibly be made.

RETAIL PRICES 1/6 2/6 3/6 6/6
TRADE PRICES, 9/6, 17/3, 27/3, 55/- per dozen.

1/-

VINOLIA BRILLIANTINE.

Is distinguished from the old-fashioned Brilliantines in which the oil floats on the surface.

Does not leave the hair greasy and sticky.

For the Hair and for the Moustache.

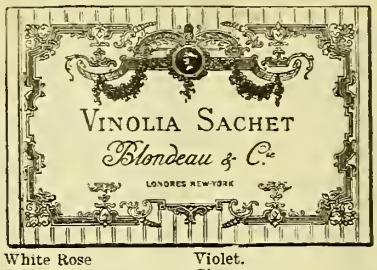
RETAIL PRICES 1/- 2/- 3/6
TRADE PRICES, 8/-, 16/-, 28/- per dozen.

6d.

VINOLIA COSMETIC

FOR THE MOUSTACHE.

RETAIL PRICES, 6d. and 1s. TRADE PRICES, 2/8 and 5/4 per dozen.



4d.

VINOLIA SACHETS.

Delicately Perfumed.
In 16 Odours.

RETAIL PRICES,
4d. and 8d.
TRADE PRICES,
2/6 and 4/6 per dozen.

White Rose	Violet.	Ylang Ylang.
Jockey Club.	Chypre.	Violette de Parme.
Opoponax.	Patchouli.	Ess. Bouquet.
Stephanotis.	White Heliotrope.	Rondeletia.
Vinolia Bouquet.	Frangipanni.	Sidonia du Japon.
Lavender.		

These are in elegant cream envelopes, printed in soft tints and be ring a small artistic vignette in green.

6d.

VINOLIA VIOLET POWDER.

Sanitary. Antiseptic. Soothing.

Specially prepared for Toilet and Nursery use.

In Elegantly Wrappered ½-lb. Tins.

RETAIL, 6d. TRADE PRICE, 3/4 per dozen.

1/6

VINOLIA LAVENDER WATER.

Natural and very Lasting.

Contains the finest Essential Oils, and being concentrated is the most economical.

RETAIL PRICES .. 1/6 2/6 4/6
TRADE PRICES .. 9/6 17/3 30/-

BLONDEAU PERFUMES.

CONCENTRATED. DELICATE. PURE.

As we have as great facilities as any firm in the world for buying and testing scents, we respectfully call attention to our Concentrated Perfumes, thirty-four in all.

* Vinolia Bouquet.	Maréchal Niel.	Ylang Ylang.
* Jequilla.	White Heliotrope.	Opoponax.
* Marequil.	Ess. Bouquet.	Stephanotis.
* Losaria.	Jockey Club.	Ambergris.
Millefleur.	Wood Violet.	Amaryllis.
	Frangipanni.	Musk.
	White Rose.	
	White Lilac.	
	New Mown Hay.	
	Jasmin.	
	Honeysuckle. Musk Rose.	
	Rondeletia. Narcissus.	
	Olematis. Patchouli.	
	Lily of the Valley.	
	Violet.	
	Violette de Parme.	
	Chypre.	
	Mignonette.	
	Hyacinth.	
	Wallflower.	

1/3

1s. 3d. PERFUME.

RETAIL PRICES,
6d., 1/3, 1/9, 3/-, 5/-, 9/-
TRADE PRICES,
3/6, 10/-, 14/-, 24/-, 40/-, & 72/- per dozen.

1/9

CUT GLASS BOTTLE.

* These four Perfumes are not supplied in the 6d. quality.

The above Trade Prices are subject to usual Discounts.

Full Retail Price 6D. a tablet.

BLONDEAU'S

Full Retail Price 6D. a tablet.

HELIOTROPE SOAP
VIOLET SOAP
OPOPONAX SOAP
VINOLIA BABY SOAP

12/- per dozen boxes of 3 tablets (Less Usual Discounts).

Packed in beautiful cardboard boxes, each containing 3 tablets.

6D. **Our Challenge** 6D.

We venture to affirm that never have two lines been put on the market which could surpass for quality, weight, and price combined the

Blondeau Cold Cream Soap, and the
Blondeau Cucumber and Glycerine Soap.

Selling to the Trade at ***2/10½ net per Dozen Tablets*** for £1 order.

BLONDEAU ET CIE., MALDEN CRESCENT, LONDON, N.W.

SHADEINE.

For Colouring the Hair. Sold in 6 tints, one liquid

[Copyright]

6d. Sample size ..	..	4/- per doz.
3/6 Large „ ..	..	28/- „
10/6 Extra „ .	..	84/- „

SAMPLES Supplied to the Trade on pretty hanging Showcards at 4/- per doz.

☛ **This Popular Article is Largely Advertised, and kept at all Wholesale Houses.**

Agents Wanted.

ALEXANDRE, 30 WESTBOURNE GROVE, LONDON.

R. ADDIS & SON.

THE

"EVERFAST" TOOTH BRUSH

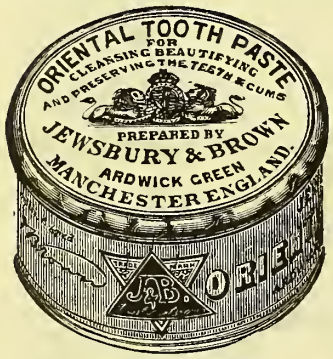
PATENT No. 6,645.

WARRANTED LONDON MADE.

These Brushes are Manufactured on an entirely new principle.

In addition to the ordinary means of securing the bristle, holes are drilled through the sides and our "Everfast" cement intermingled with the bristle. By this original process every knot is so securely fastened that it is impossible for even a single hair to come out, the danger and unpleasantness of loose bristles in the mouth being completely removed. Only materials of first-class quality used.

To be OBTAINED of all WHOLESALE HOUSES & MERCHANTS.



JEWSBURY & BROWN'S
Oriental Tooth Paste.

Established over 70 years. Warranted to retain its properties and keep good in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN,

ARDWICK GREEN, MANCHESTER.

Particular attention should be paid to the Trade Mark, printed in red and green, a facsimile of which is annexed, as numerous imitations are offered.

MAY BE OBTAINED FROM THE WHOLESALE HOUSES.

Bills and Showcards forwarded on receipt of Address Cards and directions for enclosure.

BERGMANN & CO., DRESDEN

PERFUME AND TOILET SOAP FACTORY.

SPECIALITIES:

No. 625, White Cocoa Soap, 5¼–5½ ounces each piece	.. per gross	22/6
„ 406 „ „ 3 „ „	.. „	13/-
„ 711, Best Flower Toilet Soap, 3¼–3½ ounces each piece, oval shape, 5 different scents	„	17/6
„ 658, Flat shape ditto ditto ditto	„	17/6
BUTTER-MILK SOAP IN BALLS	„	24/-
Also Soaps at lower and higher prices.		
Double Extrait Perfume in bottles of 18 ounces weight		6/-
Also, as advertised in different papers,		
BERGMANN'S LILY-MILK SOAP, sale price per piece		6d.

Our Prices are Carriage Paid.

SOLE AGENT FOR GREAT BRITAIN—

L. BRAGER, 13 Grindlay St., Edinburgh.

CHOICE FLOWER SEEDS

IN ILLUSTRATED PACKETS,

With full Cultural Directions,

In One and Two Gross Boxes.

CATALOGUES AND PRICES FREE.

SAMUEL McCAUSLAND

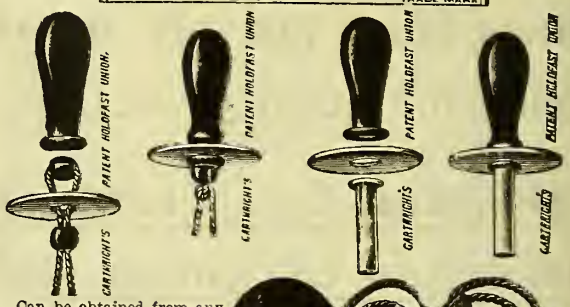
Wholesale Seed Merchant, **BELFAST.**

A. S. CARTWRIGHT,

Patentee and Manufacturer of all kinds of

PACIFIERS FOR CHILDREN WHEN TEETHING, FOOD REGULATORS, BOTTLE UNIONS, &c.

75 Ford St., Hockley, Birmingham



NIGHTINGALE PACIFIER
BALL WHISTLE & TEAT

Can be obtained from any of the following Wholesale Houses:—London: Bourne, Johnson & Latimer, F. Newbery & Sons; Liverpool: Evans, Sons & Co.; Manchester: J. Woolley, Son & Co.; Birmingham: Southall Bros. & Barclay; Sydney: Elliott Brothers (Limited); Melbourne: Felton, Grimwade & Co.

TRY **COOK'S** TRY

PURE TOILET SOAPS,

ALWAYS PLEASE BUYERS,

AND

CAN BE SOLD TO PAY

A SATISFACTORY PROFIT

"SAVON DE LUXE," *the most luxurious Soap.* **"RIVIERA,"** *a genuine Superfatted Soap.* **"COLD CREAM AND OAT-MEAL,"** *for the nursery.* **"PRINCESS" TABLETS,** *for visitors' rooms.* **"HYGIENIC" TOOTH SOAP** *to prevent decay, and to keep off toothache.* **"GLYCERINE AND CUCUMBER," AND "FLORAL" TABLETS, "ANTISEPTIC" & CARBOLIC SOAPS**

of guaranteed strength, and every description of high-priced or low-priced soaps, all of which are cheap on account of quality and saleableness.

Specialities made to Chemists' Own Recipes.

PRICE LISTS AND SAMPLES ON APPLICATION TO

EDWARD COOK & CO., LONDON.

ESTABLISHED OVER 100 YEARS.

The above Soaps can be obtained from Messrs. S. MAW, SON & THOMPSON, LONDON.

Diploma of Honour
Madrid, 1890.

Capetown, 1878.

London, 1878.

Amsterdam, 1883.

International Health, 1884.

Brussels, 1889.

Madrid, 1890.

Tunis, 1891.

Diploma of Honour,
Brussels, 1890.

JAMES SINCLAIR & SON,

SOUTHWARK, LONDON.

A DELIGHTFULLY PERFUMED SOAP

Made of selected materials. Superfatted and non-alkaline. In high repute among the Nobility and Aristocracy in England and the Colonies.

In Boxes of Three Tablets, per doz. boxes 12/-.

VELOURS or VELVET SOAP.

Balsamic and Musk Odour; elegantly wrapped; Purest Soap; in Boxes of three Tablets, per doz. boxes 9/-.

TREBLE-MILLED Toilet Soap.

In Varieties—Windsor, Rose, Almond, Glycerine and Cucumber, Elder-flower, Violet, Heliotrope, Cold Cream, Opoponax, Honey, Cold Cream and Honey, in boxes of three tablets, per doz. 6/-.
In boxes of 12 tablets . . . . . 22/-.

MEDICATED SOAPS.

Coal Tar, Carbolic, Camphor, Camphor and Carbolic, Juniper Tar and Borax Soap, in boxes of 3 tablets, per doz. boxes, 6/.

Special Brands from Special Formulas prepared with greatest care.

TOILET SOAPS IN VARIOUS SHAPED TABLETS.

FLORAL, HONEY, ROSE, WINDSOR, ALMOND, GLYCERINE, LAVENDER, &c., &c.

Tablets, 4, 5, or 6 to the pound, in 7-lb. and 14-lb. boxes, per cwt. **44/-.**
ditto, cheaper, less perfume - - „ „ **38/-.**

TRANSPARENT SOAPS.

Orange, Lemon, or Cedar, oval tablets, per gross 10/-
do. do., smaller size, do. 8/-

SPECIAL SOAPS FOR EXPORT TRADE FROM 28/-

PETROLEUM JELLY, pure white, in tins about 8 lbs., 56/- per cwt; 28 lbs., 50/- per cwt.; in barrels about 4 cwt., 46/- per cwt. Ditto, Yellow, tins 30/- per cwt.; 28 lbs., 28/- per cwt.; in barrels about 4 cwt., 24/- per cwt.

We will spare no effort to secure Business. A Trial Solicited.

Messrs. D. & W. GIBBS

(LIMITED),

City Soap Works, LONDON,

Offices and Showrooms: 16 FINSBURY CIRCUS.

TRADE D G W MARK.
REGISTERED.

DESIRE TO CALL ATTENTION TO THE FOLLOWING LIST OF SPECIALITIES AND NOVELTIES—

COLD CREAM TABLET

(Super Fatted).

A spécialité Toilet Soap, most delicately perfumed, and combined with a salve possessing all the well-known beneficial effects of Cold Cream. May be safely used in cases where other soaps would be inadmissible.

Messrs. D. & W. GIBBS have also introduced a special "**Otto Bouquet**" quality for the use of those desiring a highly-perfumed Soap, and likewise a "**Medicated**" quality, into which the refreshing antiseptic Pine Oil has been introduced in place of any perfume.

All the above are protected by our registered Trade Mark (see cover), and are put up in solid and handsome boxes containing three Tablets (each Tablet in cartoon wrapper). Can be had also in smaller sizes.

The same Soap is also specially prepared for SHAVING PURPOSES, and gives a creamy and lasting lather, which renders shaving very easy and refreshing. Put up in convenient metal cases.

SAVON d'ESTE.

A superb Soap of 40 years' unrivalled reputation. Scented with the costly and refreshing perfume of Orange Flowers. Each Tablet in handsome and convenient case.

HARD WATER TABLETS.

A special basis for use in hard waters. Artistically inlaid in red and blue, put up in ¼-doz. boxes.

TREBLE-SCENTED MUSK OLD BROWN WINDSOR

This Soap has gained for itself a special reputation, and stands unrivalled among high-class Soaps for its lasting fragrance and splendid quality. Put up in ¼-dozen boxes, each Tablet in handsome wrapper.

The following well-known high-class Soaps have recently been improved in style, perfume, and general get-up, and are now offered with confidence to the public. All these Soaps are now packed in handsome fancy ¼-dozen hinge boxes with expensive label, and each Tablet is wrapped with a pretty wrapper. These Soaps can now be had in two sizes.

This series includes—

Triple - Scented Violet. — Giving a permanent and delicate aroma of the flower. Can be had coloured or white.

Bloom Lavender. — Recommended for its sanitary as well as for its pleasant and refreshing properties. Coloured or white.

Double - Scented White Rose.—Sweet and Fragrant.

Triple - Scented Sandal Wood.—Most enduring perfume.

Triple - Scented Glycerine.—A delicate blend.

Triple - Scented Almond.—The perfume of pure Bitter Almonds.

Triple - Scented Assorted.—Three of any of the above kinds.

THE "REAL" SERIES

High-class genuine Soaps, nicely wrapped, and put up in ¼-dozen boxes. Includes—

Real Honey and Sulphur.—Excellent for the complexion. Contains both honey and sulphur.

Real Carbolic.—A powerful disinfectant, suitable for sick room.

Real Oatmeal.—A genuine oatmeal Soap.

Real O.B. Windsor.—A nice Soap.

Real Coal Tar.—A refreshing antiseptic Toilet Soap.

Also in like style and price:—

Glycerine and Cucumber and White Rose and Cucumber.

Transparent Soaps of all kinds.

Medicated Soaps of all kinds, including the Special Series of ten varieties of guaranteed formula, in wrapped Tablets. Special list on application.

Every other kind of Soap, including **Tooth Soap, Dog Soap, Plate Soap,** and **Carpet Soap,** supplied. Also chemically pure **Glycerine, Lavender Water,** and other sundries may be obtained through any respectable Chemist, or Wholesale only from **City Soap Works, London,** of whom full particulars can also be had of all varieties of hard and soft Soaps, including their special Reg. Brands —Composite Household Soap and B.S.M. Soft Soap, &c., &c.

'HYPATIA'

THE NEW TOILET SOAP.

HUGGINS' SOAP WORKS, Lim., are now appointing Agents amongst respectable Chemists in all the leading towns in the United Kingdom.

Unprecedented favourable terms to the first Three Hundred appointed.

Apply, HUGGINS' SOAP WORKS, LIM.

GRAVESEND, KENT.

SPONGE IMPORTERS.

M. PETERSON & CO.

6 HOUNDSDITCH, LONDON

FOR HOME FOREIGN, & COLONIAL MARKETS.

JOHN R. HALL'S WOOD VIOLET

Patronised by H.R.H. the Princess of Wales.

From Her Grace the Duchess of Abercorn, Hampden House, Green Street, W.: "The Wood Violet has been much appreciated."

From the Right Honourable the Countess of Bective: "We still think it the best Violet Scent we have ever used."

ESSENCES—1/6, 2/6, 4/6, 8/6, 10/6, and 21/-.

GLOBE SHAPE—1/6, 2/6, 5/6, 7/6, 10/6, and 21/-.

EDWIN R. BIGGLESTON, MERCERY LANE, CANTERBURY.

CAUTION.

A. S. LLOYD'S EUXESIS.

FOR

SHAVING WITHOUT SOAP, WATER, OR BRUSH.

R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground, with our Trade Mark at the bottom.

TRADE MARK

30, 31, 32 & 33 BERNERS ST., W.; & 87 91 93 & 95 CITY ROAD, E.C., LONDON.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush

CAUTION.

The Labels on genuine EUXESIS bear signature of A. S. LLOYD in BLACK INK, and that of his Widow, AIMÉE LLOYD, in RED INK. Refuse any other.

Sole Manufacturers and Proprietors: **AIMÉE LLOYD & CO.**

3 SPUR STREET, Leicester Square, LONDON, W.C.

N.B.–When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S)

Price's Glycerine

GREATLY REDUCED IN PRICE.

Absolutely free from Arsenic and all other Impurities. Is Odourless and Pleasant to the Palate.

MANUFACTURED ONLY BY

PRICE'S PATENT CANDLE CO.

LIMITED,

LONDON LIVERPOOL & MANCHESTER.

Guaranteed to contain Arsenic.

Regd.

Dr. Mackenzie's Complexion Soap is the same soap prepared without Arsenic.

ARTIFICIAL PERFUMES

THE BEST AND PUREST,

MANUFACTURED BY

CHUIT & NAEF, GENEVA.

SOLE AGENTS AND CONSIGNEES:

S. M. FRANKENSTEIN & CO.

Dashwood House, 9 New Broad Street,

LONDON, E.C.

Wm POPPELREUTER, MANCHESTER
TERPENELESS, CONCENTRATED
non-clouding ESSENTIAL OILS.
HEINRICH HAENSEL'S
Unequalled Speciality.

TERPENELESS OIL OF LEMON.
TERPENELESS OIL OF ORANGE.

(30 TIMES CONCENTRATED.)

See Chemists' and Druggists' Diary, 1897, page 516.

S. V. METH.

JONES & COMPANY,
COPPERFIELD ROAD,
LONDON, E.
LARGEST MAKERS IN THE KINGDOM

We are prepared to supply METHYLATED SPIRIT in 5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.

SAMPLES FREE.

BOORD & SON,
DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS.
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.
Quotations for S.V.R. Methylated Spirit and Finish on application.
FINEST ORANGE WINE FOR QUININE.

ESSENTIAL OILS,

CONCENTRATED EXTRACTS, POMADES,

AND

DISTILLED WATERS,

MANUFACTURED BY

F. VARALDI, CANNES.

(Established 1858.)

SOLE AGENTS AND CONSIGNEES:

S. M. FRANKENSTEIN & CO.

Dashwood House, 9 New Broad Street,

LONDON, E.C.

VAN OPPEN & CO.

Wholesale and Export Perfumers,

HACKNEY, LONDON.

FOREIGN PERFUMES

Of every description Kept In Stock.

Agents for the well-known Perfumes of the

"MAISON VIOLET,"

PARIS.

Sole Agents for the United Kingdom for the Celebrated

"No. 54" EAU DE COLOGNE

SPECIAL TERMS

FOR

SHIPPERS.

31

R C TREATT

Dunster House Mincing Lane
LONDON

IMPORTER OF

Musk Civet Ambergris Attar-of-Rose

ESSENTIAL OILS

Wholesale
and
Export
only

Price List and Quotations on application

TO WHOLESALE AND EXPORT TRADES.

W. RANSOM & SON

(ESTABLISHED HALF A CENTURY),

MANUFACTURING PHARMACEUTICAL CHEMISTS,

Distillers of Essential Oils and Cultivators of Medicinal Plants,

HITCHIN, near LONDON.

SPECIALITIES:—

SOLID AND LIQUID EXTRACTS EXPRESSED JUICES. ESSENTIAL OIL OF LAVENDER
ESSENTIAL OIL OF PEPPERMINT. SCAMMONY RESIN. JALAP RESIN.
ELATERIUM. MERCURIAL PILL AND OINTMENT. ALOIN. EUONYMIN. LEPTANDRIN.
DRIED MEDICINAL LEAVES. ENGLISH DANDELION ROOT.

All Standardised Preparations of the British Pharmacopœia are tested and corrected by our Analyst before leaving the Laboratory.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition, 1867.

CLAUDE RAYNAUD & CO.

GRASSE, FRANCE.

Raw Materials for PERFUMERY, ESSENTIAL OILS,

CONCENTRATED FLORAL EXTRACTS,

FLAVOURING ESSENCES for CONFECTIONERS ("DELICIOSA" BRAND),

COMPOUND PERFUMES for SOAPMAKERS.

F. DUBOC, Sole Agent for the United Kingdom, DUNEDIN HOUSE, BASINGHALL AVENUE, LONDON, E.C.

WHOLESALE TRADE ONLY.

STAFFORD ALLEN & SONS

(ESTABLISHED 1833),

DRUG MILLERS, OIL PRESSERS,

AND

DISTILLERS OF ESSENTIAL OILS,

7 COWPER STREET, FINSBURY, LONDON, ENGLAND.

EXPRESSED OILS

ALMOND (Ol Amygd. Dulc.)
PEACH KERNEL (Ol. Amygd. Persic. Dulc.)
Frequently imported as Ol. Amygd. Exot.
CROTON

ESSENTIAL OILS

ALMOND	ANISEED	BUCHU	CARAWAY
CARDAMOM	CELERY	CINNAMON	CLOVE
CORIANDER	CUBEB	CUMMIN	DILL
JUNIPER	NUTMEG	ORRIS ROOT	PEACH KERNEL
PEPPER	PIMENTO		

SANDAL WOOD

AND OTHERS

HIGHEST AWARDS CHICAGO, 1893, "FOR OILS OF EXCEPTIONAL PURITY AND STRENGTH."

GEORGE ALLEN & CO.

(ESTABLISHED 1846),

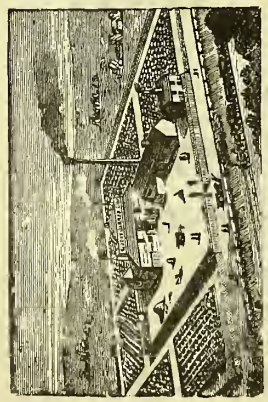
AMPTHILL, BEDFORDSHIRE, ENGLAND,

MANUFACTURING CHEMISTS,

Medicinal Herb Growers, Distillers, Manufacturers of

SOLID & FLUID EXTRACTS, JUICES, &c.

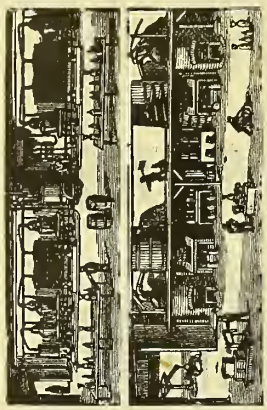
London Agents—STAFFORD ALLEN & SONS.



JOHN JAKSON & CO

Growers and Distillers of PEPPERMINT, LAVENDER, CAMOMILE, &c.

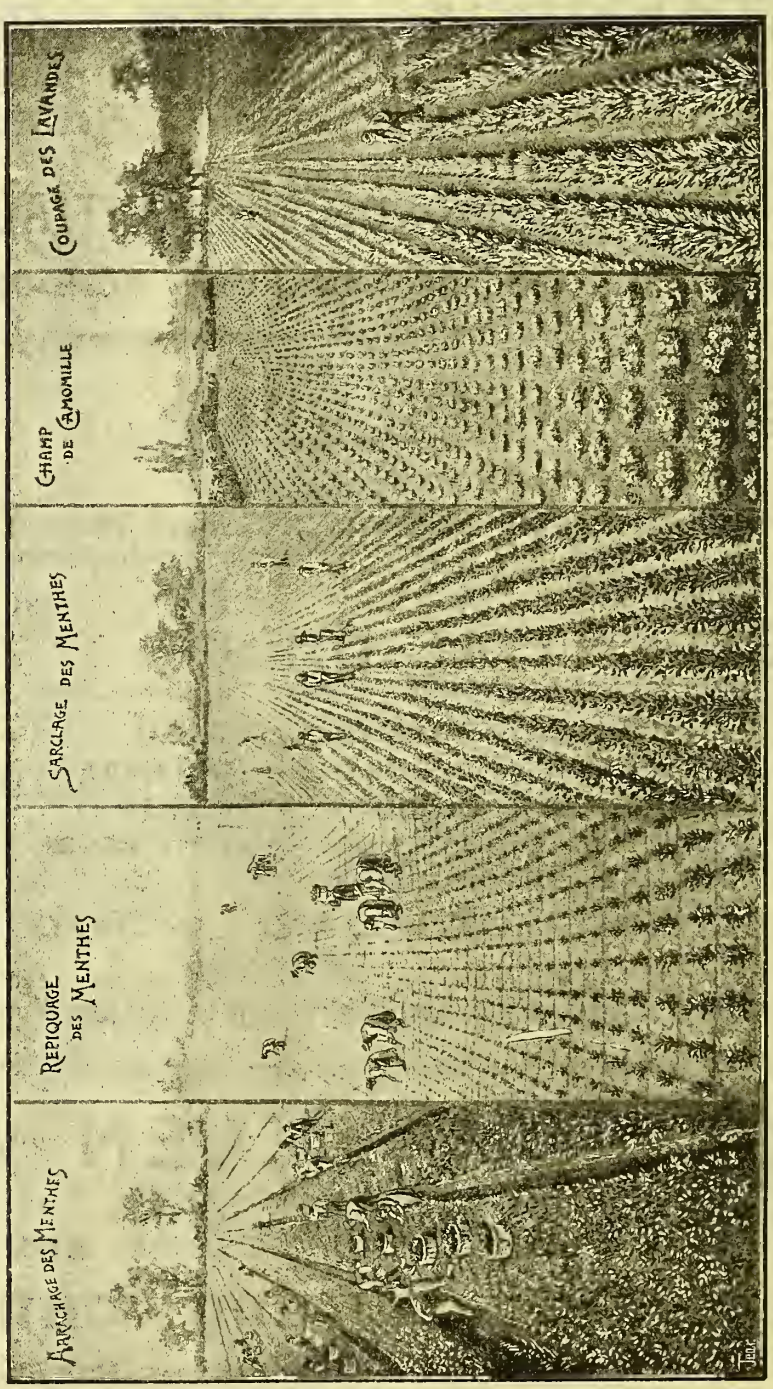
Mitcham Road Steam Distilleries, CROYDON (Surrey), 17 Philpot Lane, Fenchurch Street, LONDON, E.C. Depot—4 Rue Payenne, PARIS.



HIGHEST AWARDS AT PRINCIPAL EXHIBITIONS. 8 Gold, Silver, and other Medals awarded—Milan, 1880; Paris, 1885; Liverpool, 1886; Paris, 1889; Antwerp, 1885; London, 1890. Lyons Universal Exhibition, 1894—"Hors Concours" Member of Jury.

17 BLOOMSBURY SQUARE, LONDON, *9th January*, 1886.

Having visited the cultivation grounds and distilleries of Messrs. John Jakson & Co. at Mitcham, devoted to the production of lavender, peppermint, and other essential oils, and having submitted samples of the lavender and peppermint oils prepared by this firm to a careful physical and chemical examination, I can bear testimony to the very complete arrangements, with all modern appliances, which are here provided for distilling essential oils, and to the excellent quality of the oils so distilled.



Mitcham has been renowned throughout this and part of the previous century for the successful cultivation of peppermint, lavender, and other medicinal plants from which oils of superior quality have always been produced, but at no previous period have the means for obtaining products of the highest quality been so successfully carried out as they have been since the introduction of Messrs. Jakson's system.

T. REDWOOD, PH.D., F.I.C., F.C.S., ETC.,
Emeritus Professor of Chemistry and Pharmacy to the Pharmaceutical Society of Great Britain.

The only firm in England occupied solely in the Cultivation & Distillation of PEPPERMINT, LAVENDER, CAMOMILE, ROSEMARY, & PENNYROYAL OILS

TWO DISTILLERIES—STEAM AND OPEN FIRE. Farms & Cultures—MITCHAM, WALLINGTON, BEDDINGTON, CARSHALTON.

All Oils bearing our Trade Mark are guaranteed Pure and Genuine.

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of

Drugs, Chemicals, Perfumery, and Druggists' Sundries of all kinds.

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PUBLISHED WEEKLY.

'HIPPERS are requested to file this Number of "THE CHEMIST AND DRUGGIST," hich is certain to be useful for reference hen making up indents.

As it is the Chief Organ of the Drug Trade, nd contains the most perfect Reports of the rug Markets, its value to firms whose business es in that direction is obvious.

HE SUBSCRIPTION IS **10/-** PER ANNUM to any Address in the World.

The year may begin from the first issue in ny month, and includes 52 Weekly Issues of ne Journal, and a copy of "THE CHEMISTS' ND DRUGGISTS' DIARY" next published.

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ances payable to Edward Halse. Postal Orders payable at General Post Office, London, crossed Martin's Bank, Limited.

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Offices: 231 ELIZABETH ST., MELBOURNE, VICTORIA; and 114a PITT ST., SYDNEY, NEW SOUTH WALES.

Printed by Spottiswoode & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*March* 13, 1897.

Colonial

The Chemist & Druggist of Australasia

(ESTABLISHED IN 1886)

HAS rapidly attained to its present position—that of the LEADING PHARMACEUTICAL JOURNAL CIRCULATING in the AUSTRALIAN COLONIES. It is a purely Colonial paper, having its Offices at Melbourne and Sydney, with practical and experienced correspondents at Adelaide, Brisbane, Auckland, Wellington, Hobart, Perth, &c. All those interested in Colonial affairs should read "THE CHEMIST AND DRUGGIST OF AUSTRALASIA," and manufacturers and others desirous of doing business with Australia and New Zealand should advertise in its pages.

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Printed by Spottiswoode & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*March* 13, 1897.

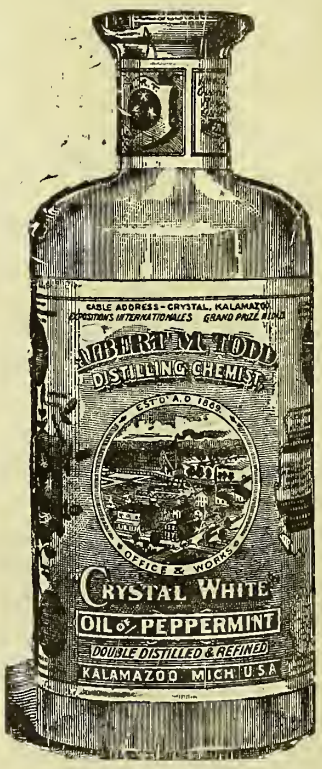
JAKSON'S
Lavender Water
A One Shilling Bottle of this Perfume guaranteed to contain more value in Lavender than a Pint of that as usually sold.
BEST
MITCHAM
Concentrated
LAVENDER
WATER
PREPARED DIRECT FROM THE FRESH MITCHAM FLOWERS BY THE GROWERS.
JOHN JAKSON & Co
MITCHAM ROAD STEAM DISTILLERIES, SURREY
THE LARGEST GROWER AND DISTILLER AT MITCHAM.
John Jakson & Co
MITCHAM
To obtain the genuine see name on each bottle.
OVER 500 ACRES IN CULTIVATION

ALBERT M. TODD'S

American Crystal White & Rose Mitcham

Peppermint Oils.

Five Highest Awards,
Medals
and Diplomas,
World's
Columbian Exposition
1893.



These ESSENTIAL OILS are GUARANTEED ABSOLUTELY PURE, and are UNEQUALLED in SOLUBILITY, FLAVOUR, WHITENESS, and GENERAL EXCELLENCE.

To secure the most complete introduction possible, the prices are placed much below their true value, bringing the *highest quality produced* within the reach of all.

Crystal White, Double Distilled and Refined.

WIDENMANN, BROICHER & Co.

SOLE AGENTS FOR GREAT BRITAIN,

33 Lime Street, LONDON, E.C.

Telegraphic Address—"WIDENMANN LONDON."

Head Office and Works: KALAMAZOO, MICHIGAN, U.S.A.

The most extensive Peppermint Plantations and Works in the World.

ESTABLISHED A.D. 1869.

SYNTHETIC & OTHER PRODUCTS

MANUFACTURED BY THE

Société Anglo-Française des Parfums Perfectionnés, Limited,

WORKS, COURBEVOIE, PARIS.

W. J. BUSH & CO.

ARTILLERY LANE, LONDON,

SOLE VENDORS for the ENTIRE WORLD

AUBEPINE S.A.F. (Mayblossom)
Powder.
Liquid.

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An entirely new perfume, and most true in character and exceedingly strong. Especially adapted for use in perfumery and scented soaps (milled process).

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GARDENIA S.A.F.
A new perfume; most true in character and exceedingly strong. Recommended for use in perfumery and scented soaps (milled process).

HELIOTROPINE S.A.F. Special Quality

OIL OF LEMON S.A.F. Synthetic Terpeneless
This is an entirely new product, and perfectly true in perfume and flavour. It is about 15 to 20 times stronger than the best qualities of Oil of Lemon, and 40 to 50 times stronger than the cheaper kinds. For use in Confectionery and Biscuits it is most economical and advantageous in every way.

MUGUET S.A.F. (Lily)

NEROLIN S.A.F.
Highly suitable for perfuming soaps; is exceedingly powerful, and works out exceptionally cheap in use.

OIL ROSES S.A.F. (French A)
" " (" B)
This is a synthetic Otto of Roses, and valuable as an economical substitute.

QUARANTAINE S.A.F. (Pinky)

ROSE MOSS "

ROSE TEA "
These Roses are manufactured by a patented process, and are very true in character. Especially adapted for use in perfumery and scented soaps (milled process).

TERPINEOL S.A.F. (Lilac)

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As a considerable fall has taken place in the price of this article, please ask for quotations before ordering.

The Sharp Bros. Soap & Perfumery Co., Ltd.

Telegraphic Address—
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Telephone No. 6957.

18 & 19 RED LION SQUARE,
HIGH HOLBORN, LONDON, W.C.

MAKERS TO THE QUEEN.

FAMILY TOILET SOAPS.

Our TOILET SOAPS are UNEQUALLED in QUALITY and PERFUME.

40/- per cwt. NET.

Special Quotation for Quantities. Hard as Milled Soaps.

Customers' own names stamped gratis on each Tablet for quantities of 1 cwt. and upwards.

PARMA VIOLET PERFUME.

SPECIAL NEW LINE.

1-oz. Handsome Stoppered Bottles, 12s. per doz.
2-oz. „ „ „ 20s. „ net.

GOLD BLOCKED LABELS.

Floral Display for Window given with Lots of not less than 3 dozen Small and 1 dozen Large.

SHARP'S WHITE ROSE AND CUCUMBER SOAP.

The Original and Only Genuine. Trebly Milled and Superfatted.

Matchless Perfume of Great Strength and Sweetness.

THE PUREST SOAP IN THE MARKET.

3 Tablets in box, 9/- doz. boxes; 12 Tablets in box, 30/- doz. boxes, subject

NEW LINES IN SOAPS

GLYCERINE & CUCUMBER TOILET SOAP.

WONDERFUL VALUE.

4 to lb., Unwrapped, 16/- gross
5 „ „ 13/- „
4 „ Wrapped, 18/- „
5 „ „ 15/- „
Subject.

THE POPULAR

"BUTTERMILK" SOAP.

Trebly Milled & Superfatted.

Tablets ... 16/- per gross, net.
Balls, 20/- & 30/- „ „

Delightfully Perfumed.
Cheapest in the Market.

LATEST NOVELTY IN TOILET SOAPS.

FINEST QUALITY SUPERFATTED.
EXQUISITELY PERFUMED FROM NATURAL FLOWERS.

SPECIAL LOW PRICE, 16/- per Gross, NET.
In Handsome Counter Boxes of One Dozen.

"A remarkably cheap line. . . . Particularly well moulded. . . . Really good hard Soap, delicately perfumed, and very pleasant to use."—Chemist and Druggist, January 30, 1897.

6D. PERFUMES.

SPECIAL LINE.

Most Attractive Bottle in the Market.

38/- gross, net.
5-gross lots, 36/- gross, net.

Labels printed with Customers' own names for 5 gross.

THE SOAP OF A CENTURY.

BENTLEY'S

Musk Brown Windsor.

FIRST MADE IN 1796.

This is the Soap actually used by H.M. the Queen.

Box of 3 Large Tabs. „ 6 Small „ } 12/- doz. Bxs. subject.

LARGEST STEAM SOAP REFINING PLANT IN LONDON.

Our Soaps are so Thoroughly Dried that Customers get Soap, not Water.

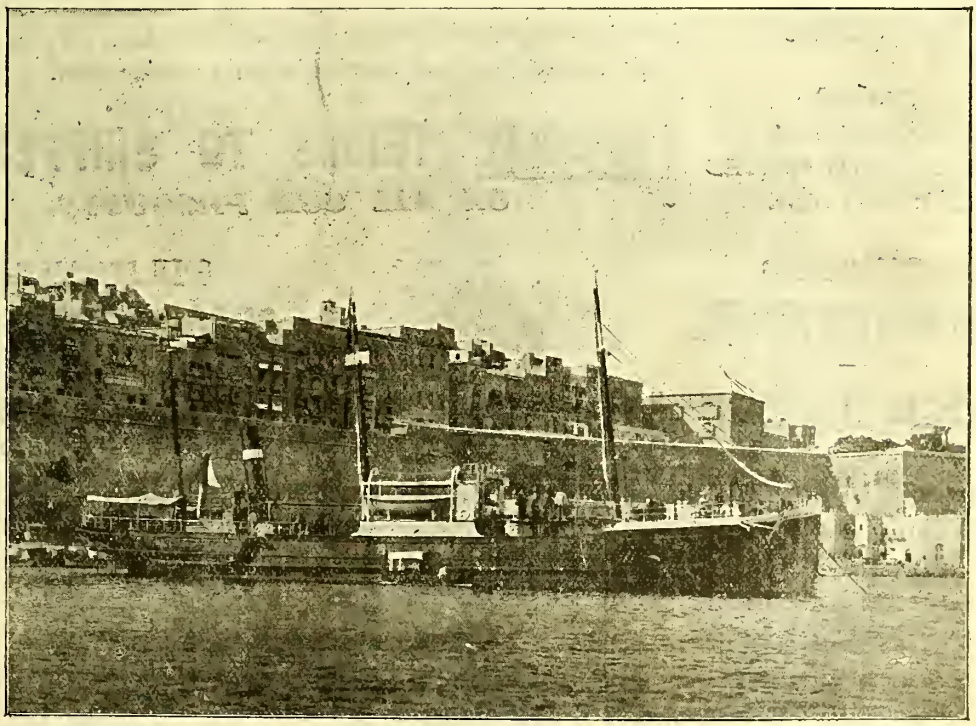
IT WILL PAY YOU WELL TO SEND US A SAMPLE ORDER.
WRITE FOR QUOTATIONS FOR PERFUMES IN BULK BEFORE BUYING ELSEWHERE.

BUY FROM THE ONLY SPONGE-FISHING AND DIRECT-IMPORTING FIRM.

CRESSWELL BROTHERS & SCHMITZ'S Sponge Imports For 1897

Are the LARGEST ever received by one firm. They exceed by SEVERAL THOUSAND Packages those received by any other Sponge Merchants or so-called Importers.

The STANDARD of December 21, 1895, says:—"By far the most important house in the trade to-day . . . whose operations have made London the chief sponge market of the world. They have established an extensive fishing station and factory on the island of Ægina, where they employ a whole fleet of Greek boats to fish in different parts of the Mediterranean.'



CRESSWELL BROTHERS & SCHMITZ'S Steamer, "LADY DOWNSHIRE," leaving Malta for the Sponge Fishing Grounds, with the Firm's Mediterranean Staff on board.

CRESSWELL BROTHERS & SCHMITZ are the **LARGEST SPONGE IMPORTERS IN THE WORLD.** *Vide* THE CHEMIST AND DRUGGIST: "They take now 40 per cent. of the sponge imports of the United Kingdom, and showed our traveller the official documents which prove their statement, **while the figures regarding EXPORTS show that their Packages and Value Outward are Far in Excess of all the rest put together.**"

Our Prices are by far the lowest in the Trade, because we are at its very Fountain Head, owning our Stores and Warehouses at the Fisheries, employing our own Divers, Fishermen, and Boats, and handling the greatest quantity of Sponges brought from the various Fishing Grounds.

WRITE FOR NEW LIST OF OUR IMPORTS FOR THE SEASON.

CRESSWELL BROS. & SCHMITZ, Sponge Importers, Exporters, and Merchants, 1 & 2 Red Lion Square. London, W.C. Additional Warehouse at 18 & 19.

MOISE & MARSHALL, LTD.

THE LARGEST EXPORTERS AND FILLERS OF

COLLAPSIBLE

ENAMELLED TUBES

"PEROLYTA" JELLY (Regd.)
COLD CREAM (Otto of Roses)
COLD CREAM, prepared with "Lanoline"
GLYCERINE & HONEY JELLY
PETROLEUM JELLY
HAMAMELIS CREAM
VASELINE
VIOLETTA CRÉME
ARECA, CHERRY, and CARBOLIC TOOTH PASTES
POMADE, HONGROÏSE

QUALITY! and QUANTITY! in each TUBE, of EACH ARTICLE, unsurpassed. **PRICES!!** appreciably LOWER!! (per Dozen and per Gross) THAN THOSE OF OTHER DEALERS IN THESE LINES. ALL THE LEADING ART COLOURS are Specially made for us, from shades we submitted, and finished in handsome Gold Embossed Labels, without our name, in order that the trade may use any of them as their own. Samples and Prices on application.

SPECIAL TERMS TO SHIPPERS!!

ON ALL OUR PRODUCTS.

SOLE PROPRIETORS:

HIGHLAND HEATHER PERFUME

PRICE LIST.

No.		Per doz.
201.	Flat bottle, ball stoppered	18/–
202.	Square " " "	32/–
295.	Flat "	21/–
299.	Fancy square bottle ...	36/–
207.	" " " ...	42/–
205.	4-oz. round bottle ...	56/–
102.	Octagon cut-glass bottle	60/–
101.	" " "	75/–
206.	8-oz. round bottle ...	96/–
622.	16-oz. " " ...	216/–

Each bottle in elegant cartoon.

The Picture in middle of page is No. 295.

All the above prices subject to discount.

WHOLESALE PERFUMERS and SOAPMAKERS.

SOLE PROPRIETORS:

SPECIAL PERFUMES

PRICE LIST.

	Per doz.
White Gardenia ...	21/– and 30/–
White Heliotrope ...	21/– " 30/–
White Lilac... ...	21/– " 30/–
White May	21/– " 30/–
White Rose... ...	21 – " 30/–
White Violet ...	21/– " 30/–
WHITE IRIS ...	21/– " 30/–
"Alpine Violet" ...	21/– " 30/–

Each bottle in cartoon.

(Very elegantly put up.)

Assorted Perfumes (No. 1012A) 4/6
" " (No. 1011A) 9/–
"Oriental Bouquet" 32/– and 45/–
(In gold-covered bottles and cartoons.)

All the above prices subject to discount.

9 BUTLER ST., (Milton St.), LONDON, E.C.

CORBYN, STACEY & COMPY.

Wholesale and Export Druggists.

Pharmaceutical Laboratory and Drug Warehouses ...	300 HIGH HOLBORN. 61 & 62 EAGLE STREET.
Perfume Laboratory and Warehouse	7 FISHER STREET.
Analytical and Research Laboratory	8 FISHER STREET.

Corbyn's Natural Perfumes

Toilet Waters, Sachet Powder, Toilet Powder.

QUADRUPLE & TRIPLE EXTRACTS

In One Pound, Half-pound, or Quarter-pound Bottles.

AZALEA
CARNATION PINK
CHYPRE
ESS. BOUQUET
FRANGIPANNI
GERANIUM
JOCKEY CLUB
JASMIN
LILY OF THE VALLEY
MAY BLOSSOM
MILLEFLEURS
MOSS ROSE
MUSK ROSE
NEW MOWN HAY

OPOPONAX
ORANGE BLOSSOM
PATCHOULI
RONDELETIA
STEPHANOTIS
TRAILING ARBUTUS
WALLFLOWER
WHITE HELIOTROPE
WHITE HYACINTH
WHITE LILAC
WHITE ROSE
WHITE IRIS
WILD APPLE BLOSSOM
WOOD VIOLETS
YLANG YLANG

These Perfumes are unsurpassed for their lasting properties and for their richness and delicacy of odour.

Price Lists with Terms will be sent on application.

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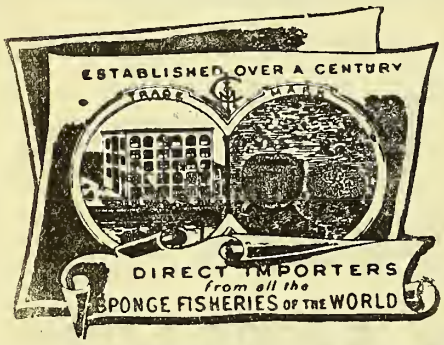
22 GREAT ST. HELEN'S, LONDON, E.C.

Telephone No. 4033 "Avenue." *Telegraphic Address—"COLOCYNTH LONDON."*

I. & M. COHEN,

Sponge Merchants, Importers & Exporters,



AND CHAMOIS LEATHER MERCHANTS,

53 & 54 Houndsditch,

AND

66 ST. MARY AXE, LONDON, E.C.

Auxiliary Warehouses and Bleaching Works—

COLLINGWOOD STREET, CITY ROAD, E.C.

SPONGES

DRUGGISTS, CHEMISTS, SHIPPERS & OTHERS

REQUIRING

GOOD RELIABLE SPONGES

Of every description at the **Lowest Possible Prices,** should purchase from us, **the direct Importers. Our Sponges** can be had in original Cases and Bales as received from **our Buyers,** or in Cases, Bales, Boxes, on Cards or Strings, Natural or Bleached, to suit customers' requirements.

All Orders will receive Prompt and Personal Attention.

G. B. KENT & SONS.

ESTABLISHED 1777.

Offices and Warehouses: 11 GREAT MARLBOROUGH STREET, W.

Telephone No. 3550. Registered Telegraphic Address: "TRICHO LONDON."

Steam Factories: ROBINSON ROAD, VICTORIA PARK, E.

Telephone No. 1166.

Dublin Branch: 63 WILLIAM STREET.

TRADE

MARK

A.D. 1777.

Australasian Agents: MESSRS. FRANCIS FORREST & CO., 484 Collins Street, Melbourne.
New York Agents: MESSRS. McKESSON & ROBBINS, 91 & 93 Fulton Street.
Canadian Agents: Messrs. GILMOUR BROS. & CO., 485 St. Paul Street, Montreal.
Paris Agency: M. PITET Aîné, 51 Faubourg Poissonnière.
Brussels Agency: MAISON NORBERT DEKEYN, 49 Rue Fossé aux Loups.
Agent in Buenos Ayres: MR. WM. BURMESTER, P.O. Box 1420.

G. B. KENT & SONS

Beg to give notice that, after 89 years' occupation of their present premises at

11 GREAT MARLBOROUGH STREET, W.,

they have purchased the Freehold of the commanding Block of Six Floors, known as

75 FARRINGDON ROAD, E.C.,

and will transfer their Stock, Show Rooms, and Offices to that address as soon as the necessary alterations shall have been completed, due notice of which will be given. This is, of course, in addition to the

FACTORY AT VICTORIA PARK, E.,

which has recently been enlarged.

March, 1897.

ENGLISH BRUSHES.

MARSHALLS, LIMITED,

27 RED LION SQUARE, W.C.,

MANUFACTURERS OF

PATENT "REEL" FLY CATCHER, HILL'S CAJUPUT JELLY,

AND FILLERS OF PATENT ENAMELLED TUBES TO THE TRADE.

Send Formulæ or Preparation in bulk; by return post lowest cash quotation will be forwarded.

PRETTY TUBES, ARTISTIC GET UP AND FINISH.

Glycerine and Honey Jelly.
Cold Cream (Otto).
Tooth Pastes.
Creme Violetta.
Boot Creams.
Vaseline.
Pomade Hongroise.

VIOLET MEDALLIONS.

The Success of the Season.

Please note new Address, 27 RED LION SQUARE, W.C., where please address all Letters.

A LEADING LINE—ALWAYS IN DEMAND!

M. BEETHAM & SON

Beg to announce that in order to insure a fair profit to the Retail Trade, and to endeavour to do their part in the effort now being made to put an end to the suicidal system of "Cutting" so prevalent in the Trade, they have decided from October 20th to fix minimum prices at which their Glycerine and Cucumber, Hair Grower, &c., &c., shall in future be sold.

M. BEETHAM & SON trust that their endeavour to give the Retailer larger profits will be reciprocated, and that he will in return help them to increased business by freely and ungrudgingly letting the public have the articles for which they ask. So shall the benefit be mutual, and not all on one side.

		Minimum Retail Price.	Minimum Wholesale Price.
Beetham's Glycerine & Cucumber	1/-	10½d. each	8/6 doz.
" " "	1/9	1/7 "	15/- "
" " "	2/6	2/3 "	20/6 "
" " "	4/6	4/- "	38/6 "
" Capillary Fluid & Hair Grower .	2/6	2/3 "	20/6 "
" " " " " .	4/6	4/- "	38/6 "
" Corn Plaster	1/1½	1/- "	9/6 "
" " "	2/9	2/6 "	24/- "

£5 Lots single or assorted Goods, 5 % discount for CASH WITH ORDER.

Show Cards, Handbills with name on, and Window Dummies supplied free on receipt of Business Card by

M. BEETHAM & SON, CHELTENHAM.

All cases of "Cutting" should be reported to the SECRETARY, P.A.T.A., 2 Stonecutter Street, E.C.

GOLD MEDAL

JAMAICA EXHIBITION.

PURE AND PERFECT ARTICLE FOR

Teeth, Gums, and Breath.

PURILINE

REGISTERED

TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use.

Price 1/-, in handsome Enamel Box.

The POPULAR DENTIFRICE

WHICH SELLS AT SIGHT.

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.

The COURT CIRCULAR says:—"'Puriline' emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. STANLEY, D.C.L., LL.D., the great African explorer, says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

The Countess of ROSSLYN writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

A. WILSON, *21 New Park Road, Brixton Hill,* **LONDON, S.W.**

Proprietor of "Bunter's Nervine," "Dentine," and "Puriline."

H. P. TRUEFITT'S SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-, 10/6, 21/-

Egg Julep, 2/-, 4/-

CONCENTRATED Egg Julep, 2/6, 5/-, 10/6.

Golden Fluid, 10/6, 21/-

EUXURON, 1/6.

&c.

EUCHRISMA.

Combines in one clear Fluid every valuable Component both of a Hair Grease and Wash. 3/6, 5/-, 10/6, 21/-

EAU RACINE.

For renewing the original colour of Grey Hair; superior to all other Restorers, being perfectly simple in its Components. Price 6/-

Stimulating Lotion, 5/-, 10/6.

Astringent and Tonic Lotion, 5/-, 10/6.

Quinine and Arnica Hair Wash, 3/6, 5/-, 10/6, 21/-

Arnica Wash, 3/6, 5/-, 10/6.

&c.

An elegant Preparation for the Hair and Beard. Price 2/6, 3/6, 5/-, 10/6, 21/-

BRILLANTINE.

H. P. TRUEFITT'S TONIC TOOTH BRUSH

(BY ROYAL LETTERS PATENT.)

PRICE ONE SHILLING.

20 & 21 Burlington Arcade; 13 & 14 Old Bond St., London

CARMICHAEL'S FLORAL AMULETS

Those who **KNOW** the business **END** of a **TIN TACK!** are those who know an imitation **AMULET** from the real one; one is made with Vaseline (the wearers know to their sorrow that it melts away), the **OTHER** is lasting. Be sure they are **CARMICHAEL'S.** Also get an indemnity from the maker to protect you against my lawful attacks. Due notice will be given of each lawsuit as it is settled.

To be had of all Wholesale & Export Houses in London.

BRECKNELL'S SKIN SOAP.

PRIZE MEDAL.

Recommended by Eminent Medical Men.

Unscented, yet Sweet as a Rose.

Although low in price, it ranks with high-class soaps, and is altogether the best extant for producing a Clear and Healthy Skin.

☛ The longer it is kept the more it improves and increases in value.

LIBERAL TERMS TO THE TRADE.

BRECKNELL, TURNER & SONS, LIMITED,

To Her Majesty, &c., &c.

31 HAYMARKET, LONDON.

ESTABLISHED 1862.

A NEW DEPARTURE.

Covered Pots Up to Date

Up to the present it has been almost impossible to get anything really original and artistic in the designs submitted for covered Pots for Tooth Paste, Cold Cream, &c., &c., and there has been what is usually known as a "long-felt want" for something more in keeping with the present School of Elegant Pharmacy. We have, therefore, organised a staff of skilled Artists for originating and improving special designs to suit the varied requirements of our Customers, and are in a position to give perfect satisfaction in the execution of any orders entrusted to us. **AYRTON & SAUNDERS.**

SQUARE CROYDEN POTS.

White or Cream Coloured Earthenware

½ oz	... 24/-	gross.
¾ oz	... 26/-	,,
1 oz.	... 30 -	,,
1½ oz.	... 33/-	,,

Less 5 per cent. for an order of 3 gross of a size or assorted.

Part Cost of Copper Plate, including Preparation of Design, 21/- net.

We also supply Round and Octagon Pots of all sizes and styles, and shall be pleased to supply Illustrated Sheets of Stock Designs on application.

Telegraphic Address—"SUNDRIES LIVERPOOL." | **AYRTON & SAUNDERS, 149 DUKE STREET, LIVERPOOL.** | Telephone No. 423.

Guaranteed Absolutely Pure.

Menthol Cones.

Special Terms to Shippers.

We import the MENTHOL direct from Japan, mould it in our own Laboratory, turn the BOXWOOD CASES in our own Factory, and also manufacture the CARDBOARD OUTERS containing them in our own Box Factory—thus are in a position to supply them on the very best possible terms.

Fig. 1. Fig. 3. Fig. 4. Fig. 5. Fig. 6. Fig. 7. Fig. 8. Fig. 9. Fig. 10. Fig. 11.

No. 0	...	As Fig. 1	... per doz.	-/8	No. 9	...	As Fig. 4	... per doz.	4/-	No. 18	... As Fig. 7 ... per doz. 7/-
,, 1	...	—	... ,,	1/4	,, 10	...	,, 10	... ,,	4/-	,, 19	... ,, 5 ... ,, 8/-
,, 2	...	,, 3	... ,,	2/-	,, 11	...	,, 11	... ,,	4/-	,, 20	... ,, 10 ... ,, 8/-
,, 3	...	,, 4	... ,,	2/3	,, 12	...	,, 6	... ,,	4/-	,, 21	... ,, 6 ... ,, 8/-
,, 4	...	,, 4	... ,,	3/-	,, 13	...	—	... ,,	4/-	,, 22	... — ... ,, 8/-
,, 5	...	,, 6	... ,,	2/9	,, 14	...	—	... ,,	6/-	,, 23	... ,, 11 ... ,, 8/-
,, 6	...	,, 7	... ,,	3/6	,, 15	...	,, 6	... ,,	6/-	,, 24	... ,, 5 ... ,, 16/-
,, 7	...	,, 8	... ,,	4/-	,, 16	...	,, 4	... ,,	6/-	,, 25	... ,, 10 ... ,, 16/-
,, 8	...	,, 9	... ,,	4/-	,, 17	...	,, 10	... ,,	6/-	,, 26	... — ... ,, 42/-

AYRTON & SAUNDERS,

149 DUKE STREET, LIVERPOOL.

Do you require Petroleum Jelly ?

If so, SNOWDON'S PETROLEUM JELLY, White or Yellow, is the best and purest obtainable. It fulfils all the requirements of the B.P., and is pronounced by the Medical Profession to be unsurpassed.

Read the following Analytical Report:

Dr. S. RIDEAL, D.Sc., Lond., F.I.C., F.C.S., writes:—"The "samples of Petroleum Jelly received on December 20th, 1894, "and marked Yellow No. 1 and Yellow No. 2A, have been examined "by me, and tested for saponifiable fat and resin, but neither of these "substances were present. There was no ash in either sample, and "in colour and general appearance showed that they had been care-"fully manufactured; were also practically free from any taste, and "contained no traces of any free acid. I believe that both qualities "are high-class Petroleum Jellies. In addition to the above tests, I "find that Yellow No. 1 passes all the B.P. requirements for Paraffinum "Molle, and both being vaselenes, may be used as the equivalents of "'Vaseline.'"

Have you seen our New Speciality in Petroleum Jelly ?

The "SNOWDRIFT" (Regd.) BRAND is of a tough or stringy consistency, and is highly commended by *The Hospital*, which says of it "That its tough or stringy nature is a great improvement. We "learn that already the demand for the 'Snowdrift' Brand is very "great. It is cheaper than ordinary vaseline, and we confidently "recommend it to the Medical Profession." Samples and Prices will be sent on application.

Do you require a Special Quality suitable for a Tropical Climate ?

We can supply you with Jelly of high melting point, suitable for this purpose. State exactly what you require, and we can let you have it. Let us respectfully ask for definite information as to requirements, as it saves needless correspondence and loss of time.

Send for a Sample of "Snowdrift."

Address SNOWDON, SONS & Co., Millwall, London, E.

Telegraphic Address: "SNOWDRIFT, LONDON."
Telephone No.: "5127, EASTERN."

JEANCARD, GAZAN & DOUMIN,

Distillers and Importers,

13 St. Mary Axe,

LONDON, E.C.

Head Distillery at
CANNES (France).

Trade Mark J.G.D.

Telegrams: "JEANCARD LONDON."
Telephone Number, 11955.

ESSENTIAL OILS OF ALL KINDS.

MUSK, CIVET, AMBERGRIS, VANILLOES, ATTAR-of-ROSE.

WHITE NEUTRALINE OILS.

NATURAL CONCENTRATIONS of FLOWERS.

Pomades, Extracts, & Alcoholic Preparations.

CRYSTALLIZED PERFUMES,

SYNTHETIC PERFUMES,

SPECIALITIES.

SAMPLES AND PRICES ON APPLICATION.

BRANCH DISTILLERIES in the Alps for Peppermint and Lavenders.
Also in Africa and Bourbon for Geranium.

STOCKS KEPT IN LONDON OF ALL STANDARD QUALITIES.

NATURAL MINERAL WATERS, SALTS, &c.

Hunyadi János

INGRAM & ROYLE, LTD.

Head Office:—52 FARRINGDON ST., LONDON, E.C.

19 South John St. LIVERPOOL.

VICHY

80 Redcliff Street, BRISTOL.

NAME	PROPERTIES	Per Doz. Bots.	Per Doz. ½ Bots.	Original Pkgs. Bottles	Original Pkgs. Bottles	Original Pkgs. ½ Bots.	Original Pkgs. ½ Bots.
ÆSCULAP	SALINE, APERIENT	15/-	12/-	25	30/-	50	50/-
BETHESDA (SPARKLING)	ALKALINE	11/6	..	..	..	..	..
BIG RAPIDS	ALTERATIVE	48/-	20/-	..	..	..	..
BILIN (SAUERBRUN)	TABLE WATER	9/-	..	50	36/-	..	..
BIRMENSDORF	SALINE, APERIENT	12/-	..	50	48/-	..	..
BOURBOULE (LA)	ARSEN., FERRUGINOUS	11/-	..	50	42/-	..	..
BUSSANG	CHALYBEATE	7/-	..	50	28/-	..	..
CARLSBAD	ALKALINE, LITHIATED	12/-	..	50	46/-	..	..
CONDAL	SALINE, APERIENT	..	14/-	..	..	50	56/-
CONTREXÉVILLE	ALKALINE	9/-	..	50	35/-	..	..
EMS	ALKALINE, SALINE	7/-	..	50	28/-	..	..
EVIAN	ALKALINE, GASEDUS	8/6	..	50	40/-	..	..
FACHINGEN	ALKALINE, CHALYBEATE	7/6	..	50	29/-	..	..
FLITWICK	FERRUGINOUS	24/-	15/-	..	..	..	..
FRIEDRICHSHALL	SALINE, APERIENT	13/-	10/-	25	25/-	50	40/-
*FRANZ-JOSEF	SALINE, APERIENT	12/-	10/-	25	22/6	50	35/-
GIESSHUBLER	ALKALINE	8/-	5/-	50	30/-	100	38/-
HOMBURG	SALINE, CHALYBEATE	12/-	..	50	48/-	..	..
***HUNYADI-JÁNOS**	SALINE, APERIENT	12/-	10/-	25	22/6	50	35/-
JOHANNIS	TABLE WATER, GASEDUS	5/6	4/-	50	21/-	100	32/6
KISSENGEN	SALINE, SULPHUROUS	11/-	..	50	45/-	..	..
KRONENQUELLE	SALINE, SODIO-LITHIATED	10/-	..	50	38/-	..	..
LEVICO	ARSENICAL	..	15/-	..	..	..	..
MARIENBAD	ALKALINE, CHALYBEATE	10/-	..	50	38/-	..	..
MISSISQUOI	SULPHUROUS	25/-	..	24	48/-	..	..
OBERBRUNNEN	LITHIATED	9/-	..	50	36/-	..	..
PULLNA	SALINE, APERIENT	12/-	8/-	40	36/-	40	25/-
ROSBACH	TABLE WATER, GASEDUS	5/6	4/-	50	21/-	100	32/6
RUBINAT	SALINE, APERIENT	15/-	8/-	25	30/-	100	60/-
ROYAT	SALINE, ARSENICATED	9/-	..	50	34/-	..	..
ST. GALMIER	TABLE WATER	6/-	4/6	50	22/-	100	34/-
ST. MARCO	LITHIATED, GASEDUS	11/-	..	50	42/-	..	..
SALVATOR	ALKALINE, LITHIATED	..	9/-	..	..	50	36/-
SELTERS	ALKALINE, ACIDULATED	6/-	4/6	50	24/-	50	17/-
VALS	ALKALINE, ACIDULATED	8/6	..	50	33/-	..	..
VICHY—							
CELESTINS, GRANDE-GRILLE, HOPITAL, PARC (STATE SPRINGS)	ALKALINE, ACIDULATED	8/6	6/6	50	33/-	50	25/-
WILDUNGEN	ALKALINE	10/-	..	50	40/-	..	..
WOODHALL	SALINE, BROMO-IODISED	8/-	..	..	..	..	..

* Special Terms for Hunyadi-János and Franz-Josef for quantities. All other Natural Mineral Waters not in this list will be quoted for on application.

SALTS, PASTILLES, ETC.

	Per doz.
**CARLSBAD "Sprudelsalz," bottles	46/-
Do. do. ½-bottles	23/-
Do. **in Powder,** same prices	
Carlsbad Pastilles, large boxes, 13/-; small	7/-
Do. **Soap,** tablets	12/-
HOMBURG SALT, large, 30/-; small	18/-
Homburg Pastilles	15/-
Kissengen Salts	30/-
Kreuznach Salts, 1-lb. bots., 11/-; 7-lb. jars	60/-
Marienbad Salts, crystals or powder	27/-
VICHY SALTS, bottles or boxes	42/-
Do. do. (for baths) Rouleaux	12/-
Do. **Pastilles,** large boxes, 13/-; small	7/-
Woodhall Salt, small, 10/-; large	15/-
Do. do. (effervescing)	20/-

Hunyadi János

INGRAM & ROYLE, LTD.

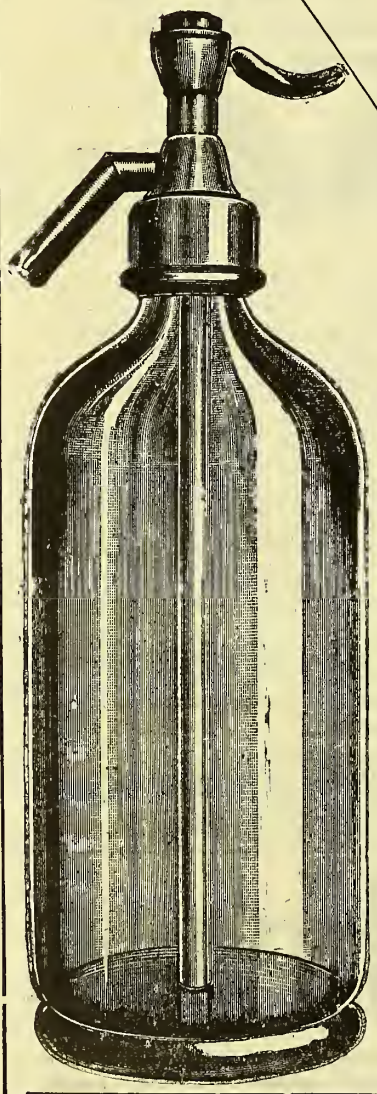
LONDON, LIVERPOOL & BRISTOL.

No Charge for Packing. Carriage Paid in the United Kingdom.

IDRIS

IDRIS ROYAL TABLE WATERS ARE SUPPLIED BY SPECIAL WARRANT TO THE QUEEN.

EIGHT GOLD MEDALS AT RECENT EXHIBITIONS.



ROYAL

All Chemists who wish to do a large trade in Mineral Waters are advised to stock these well-known Waters, which are in constant demand by the Public, and sell better than any others.

No Firm or Association can offer such facilities to Chemists to do a large trade.

TABLE

Medical Men strongly recommend Idris Table Waters. Chemists who have sold these Waters for many years still find their business increasing.

Sample Case sent Free to any Chemist. Attractive Circulars with Chemist's name.

HANDSOME SHOW CARDS.

WATERS

Elegantly-designed Tablets for shop windows and doors specially prepared to suit the requirements of each customer, supplied free.

Chemists are Invited to Inspect Idris & Co.'s Factory.

IDRIS & CO., LIMITED,

CAMDEN TOWN, LONDON, N.W.; & COLEMAN STREET, SOUTHAMPTON.

THE CHEMISTS ERATED IN ERAL AT ERS SSOCIATION IMITED.

C.A.M.W.A.L.'S

FINE RECORD OF

STEADY & PROGRESSIVE GROWTH

achieved by supplying One Quality of Goods only—*the Best;* by studying and meeting the requirements of the Trade; and by carefully looking after minutiæ and detail.

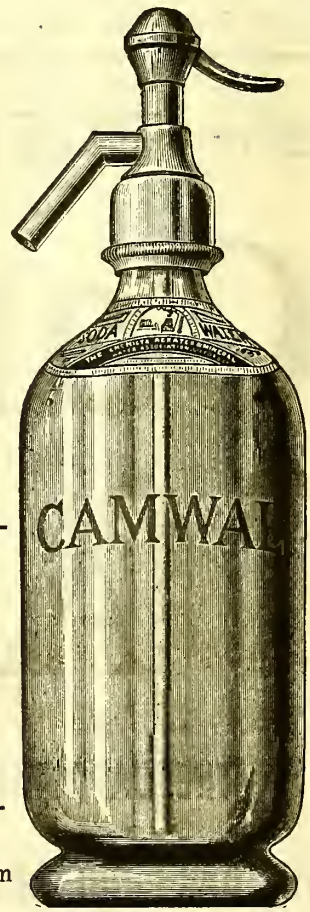
CAMWAL TABLE WATERS
are supplied to Chemists and Hospitals only.

CAMWAL
in 1878.
ONE FACTORY.
Membership
119.

CAMWAL
in 1880.
TWO FACTORIES.
Membership,
430.

CAMWAL
in 1884.
THREE FACTORIES.
Membership,
908.

A
HISTORY
IN BRIEF OF
CAMWAL
Gold Medal
TABLE WATERS



CAMWAL in 1897.
SIX FACTORIES
(including two in course of erection at Manchester & Birmingham).
Membership over *4,000!*

CAMWAL'S FACTORIES London, Harrogate, Bristol, Mitcham, Manchester, & Birmingham

Head Office: Gifford Street, Caledonian Road, London, N.

HIGHEST AWARD AT THE INTERNATIONAL EXHIBITION, LONDON, 1885.
TRADE MARK, Registered May 21st, 1867.

MILD DRINKS. Cherry. Raspberry. Strawberry. Lime Fruit. Black Currant. Lemon. Orange. Lemon Squash, &c.

THE PIONEER TEMPERANCE BEVERAGES.—Ch. Eng. Temp. Chron.

TRADE MARK WB

BECKETT'S
FRUIT SYRUPS & CORDIALS

TRADE MARK WB

HOT DRINKS. Winterine. Gingerette. Ginger. Lemon. Peppermint. Clove. Elderberry. Cherry Punch, &c.

First-class beverages."—*The Grocer.*
"Have an established reputation."—*Nonconformist.*
"Delicious beverages."—*Scottish Good Templar.*
"Beckett's Fruit Syrups are not to be excelled."—*Anti-Adulteration Review.*
"Exceedingly pleasant."—*The Rock.*
"Invigorating and refreshing."—*Manchester Courier.*

Price Lists and other information sent post free on application to the Manufacturers—W. BECKETT, SONS & CO., Heywood, Manchester.
Wholesale and Export Agents—BARCLAY & SONS (LIM.), 95 Farringdon Street, E.C.; W. EDWARDS & SON, 157 Queen Victoria Street, E.C.;
J. SANGER & SONS, 2 Winsley Street, Oxford Street; J. WOOLLEY, SONS & CO., Manchester; GOODALL, BACKHOUSE & CO., Leeds, &c., &c.

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NATURAL SPARKLING TABLE WATER.

SELLS READILY AND LEAVES A GOOD PROFIT.

Quarts, Pints, and Splits. For Prices and Terms, apply to ROSBACH SPRINGS, LIM., 19 Regent St., W.

For PURE LIQUEFIED

Carbonic Acid Gas

APPLY TO

THE CARBONIC ACID GAS CO., Lea Bridge Road, LONDON, N.E.

OR TO

THE CARBONIC ACID GAS CO., Pollard Street East, Ancoats, MANCHESTER.

The Spécialité for High-Class Pharmacies.

Burrow's (Alpha Brand)

Malvern Waters.

SPECIALLY PREPARED FOR EXPORT.

APPLICATIONS FOR AGENCIES TO

W. & J. BURROW, The Springs, MALVERN.

VINACOCA.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

ALSO

COCA LIQUEUR

The best Restorative,
The best Nerve Tonic,
The best Renewer of Health is

ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR, COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, COCA TOBACCO, &c.

Sole Proprietors of

THE NEW VAPORISER, "OUR OWN."

ENGLISH MADE.

Prices from 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, REGENT STREET, LONDON, W.

ROBINSON'S ORIGINAL

CONCENTRATED WATERS.

ESTABLISHED 1855.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua	Amygd. Amar. Conc. (U.S.)	4/-	per lb.	Aqua	Cassiæ Conc.	4/-	per lb.	Aqua	Menth. Virid. Conc.	4/-	per lb.
"	Anethi, Concent.	4/-	"	"	Flor. Aurant...	8/6	"	"	Pimentæ "	4/-	"
"	Anisi "	4/-	"	"	" Sambuci Conc...	8/6	"	"	Pulegii "	4/-	"
"	Camphoræ "	4/-	"	"	Fœniculi Conc.	4/-	"	"	Rosmarini "	4/-	"
"	Carui "	4/-	"	"	Menth. Pip. Conc.	4/-	"	"	Rosæ "	8/6	"
"	Cinnam. Ver. Conc.	6/-	"	"	" Ang. Conc.	6/-	"	"	" Virgin. "	10/6	

The above may be had in ½-lb. or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

SUPERIOR ORANGE WINE (Vin. Aurantii, B.P.).

Samples of any of the above sent free on application from

B. ROBINSON, Distiller and Brewer of British Wines, Church Street, PENDLETON, MANCHESTER.

MAKE YOUR OWN MINERAL WATERS.

See Pages 442 and 443, *Chemist and Druggist* Diary, 1897.

A great many Chemists, Hospitals, &c., are using this simple and most effective Plant, and producing splendid Aërated Waters.

SUPPLIED ONLY BY

THE VOLCANIC AËRATION CO., 203 Great College Street, LONDON, N.W.

J. G. CHAPMAN, Proprietor.

VIN-KAFRA

"TONIC of TONICS."

STIMULATES without REACTION.

34s. per dozen Bottles. Retail 3/6 per Bottle.

CAN BE OBTAINED FROM ALL WHOLESALE HOUSES.

The Mead Manufacturing Co.

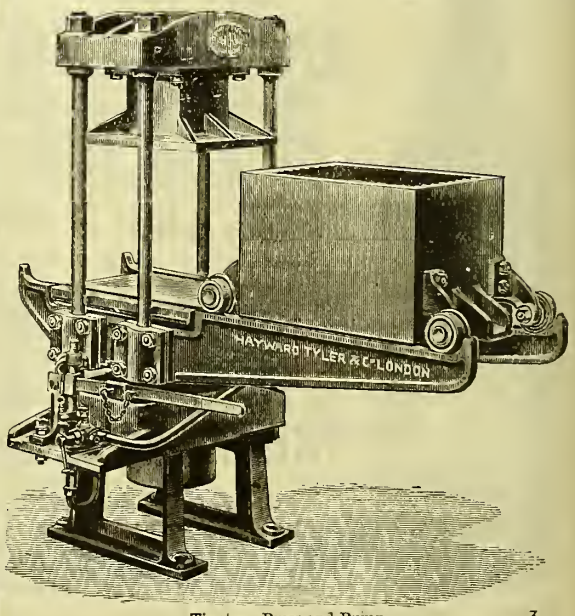
156 & 157 Aldersgate St., E.C.

54

HAYWARD-TYLER & CO.

MAKERS OF

HYDRAULIC PRESSES.



Tincture Press and Pump. 3

90 & 92 WHITECROSS STREET, E.C.

Hunyadi János

Known, after 25 years' test in the United Kingdom, as the most popular, safest, and best Natural Aperient Water, is now being supplied through the Distributing Wholesale Houses all over Great Britain and Ireland, at prices fixed by the Proprietor, Mr. Andreas Saxlehner, of Budapest, Hungary, which are as follows:—

Per Case of	25 large bottles,	22/6	.....	Per dozen,	12/-
,, ,,	50 small ,,	35/-	.....	,, ,,	10/-
,, ,,	25 large ,,	21/-	Per 10-case lots.		
,, ,,	50 small ,,	32/-			

For net cash.

London Agency—TRAFALGAR BUILDINGS, CHARING CROSS, W.C.

SALLYCO!

(REGISTERED)

The Mineral Water of the Day.

A Pleasant Beverage, superior to all other English and German Mineral Waters. It mollifies and qualifies all spirits; mixes well with wines. Relieves Alcoholic Thirst without depressing the system.

It is a Urate Solvent, and prevents fermentation of food.

One bottle taken every morning on an empty stomach stimulates the Liver, Kidneys, and Skin to healthy action.

Recommended by Medical Men for Sluggish Liver, Gout, Rheumatism, Kidney Complaints, Lumbago, and Sickness.

All who have tried it are delighted with SALLYCO as a Beverage and Remedy.

Retail Price, 5/- doz. on rail.
Wholesale, 36/- per gross, Carriage Paid.

WANTED, *Aerated Water Manufacturers all over the world (everywhere 100 miles from London) to bottle* SALLYCO *on special and advantageous terms.*

THE SALLYCO WATER CO.
Denmark Road, HORNSEY, LONDON, N.

AND OTHER

AERATED TABLE WATERS.

W. A. ROSS & SONS, LTD.
BELFAST.

55

SYPHONS & SELTZOGENES

Messrs. J. BARRE JOHNSTONE & CO., 30 Loftus St., Sydney, N.S.W., Agents for New South Wales, Queensland, and New Zealand.
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American Agents.—For New York and East. WM. G. SMITHERS, 11 Duane St., New York.
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PRICES.

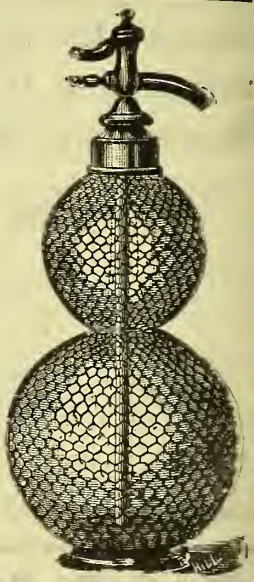
SYPHONS — 1/6, 1/8, and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.
The tops of these Seltzogenes are made of pure block tin, guaranteed.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



THE NEW PATENT "CLINCHER"

Is the latest thing in Seltzogenes.
Every Chemist should see this New Invention before ordering any more Ordinary Screw Taps.

NO SCREWS TO CORRODE OR GET JAMMED.
EASY, RAPID, AND EFFECTIVE IN USE.

SYPHONS & SELTZOGENES.

SYPHONS

EIGHT HIGHEST AWARDS.
SUPERIOR QUALITY.
ENGLISH MAKE.

HEADS: Of Guaranteed Metal, Plain Burnished, Nickelled or Silver-plated.
VASES: Of Extra Strength, Finest Crystal and Colours; ornamentally Engraved; 18 to 50 oz. Capacity.

THE "MAJOLICA" SYPHON, Porcelain-lined Head, is specially adapted for a Chemist's trade. See *Lancet* Report.

LOWEST PRICES consistent with FIRST QUALITY AND WORKMANSHIP, on application to

THE BRITISH SYPHON M'F'G CO., 2 Gresham Buildings, Guildhall, LONDON, E.C.

ABSOLUTELY PURE WATER

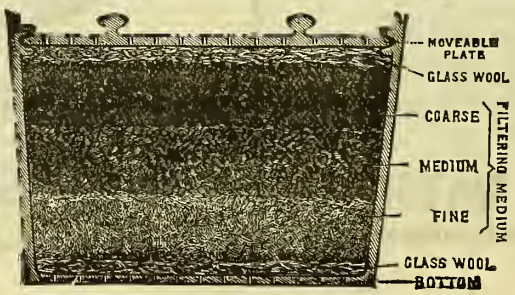
BY USING THE

MAWSON FILTER.

Free from Bacteria or Disease Germs,

Free from Organic Impurities,

Free from Poisonous Lead Salts and Excess of Lime.



Pure Spring Water produced from Rain Water by a perfect imitation of Nature's Process. This is the only Filter that will give these results.

In Glass and Earthenware for household use and large supplies, Iron and Enamelled Ware for ships, and Aluminium for tourists.

The Mawson Filter Co.
WORKS—
NEWCASTLE-ON-TYNE.

Hungarian Aperient Water.

Per 50 Bottles (ordinary size), 17/6
„ 25 „ (large size) - 12/6

Free on Rail London. Terms Cash.

ACTIVE. TASTELESS. NEVER GRIPES.

HERTZ & COLLINGWOOD, 38 Leadenhall Street, London.

Secure this Agency! Look at the terms!

HOLLOWAY'S

Sale or Return.

33⅓ % discount.

COCA WINE

Guaranteed made from the Leaf.

Carriage Paid.

Cases Free.

THE BEST. Write for Particulars,

E. A. HOLLOWAY, A.P.S., TORQUAY.

N.B.—We guarantee to create demand at once.

Only ONE in each Town.

WINE LICENCES.—We pay the licence for our agents; we give 33⅓ discount, sample doctors, bill towns, give sole agency and newspaper advertisement; one agent sold 48 doz. in eleven months; send for circular; secure agency White's Gold Medal Coca Wine. S. B. White, A.Ph.S., Leicester.

Why not YOU?

IMPROVED SELTZOGENE CHARGES,

"Mineral" Brand.

These charges possess the following advantages:—

1.—The complete charge being enclosed in ONE wrapper, it is impossible to make any mistake.

2.—Owing to the superior form of wrapping employed, the charges are not subject to deterioration by changes of climate.

3.—In consequence of the special method of preparation, it is impossible for a charge to produce more than the correct quantity of gas, and thus the safety of the seltzogene is assured.

4.—The acid being in the form of solid blocks, instead of small crystals, ensures the more gradual evolution of the gas, and better aëration of the water without unnecessary pressure.

5.—The definite size and number of the blocks show at once that the correct charge is present.

6. The organic compounds hitherto employed promote the growth of germs, fungi, &c., which often give a distinctly unpleasant flavour to the aërated water; the improved charges, on the other hand, are of British make, and of purely mineral origin, and therefore afford no facilities for the growth of such organisms; as a consequence the aërated water retains its purity and brisk flavour, no matter how long it has been made.

The aërated water produced by these charges is excellent in flavour and full of gas, and comparable in every respect to a mineral water of the highest class.

THE SELTZOGENE PATENT CHARGES CO.,
ST. HELENS, LANCASHIRE.

AERATED WATER TRADE

TO THE RETAIL CHEMIST.

The public believe that everything a chemist handles is of better quality than a similar article obtained elsewhere, and if it is understood that an article is prepared by a chemist, or under his direction, then it *must* be purity itself. Why this should be we don't know, but our daily experience teaches us that it is the case nevertheless. All our chemist friends tell us the same tale—that when it became known that their Aerated Waters were of their own manufacture, and not the same as could be bought at the neighbouring grocers' or other dealers', the sales began to increase steadily until a very much larger trade was created than it was believed was possible to exist in the district.

Why not take advantage of this state of the public mind, and so manufacture an article for which you already have a demand?

The Summer will soon be with us, but before then just turn over in your mind whether it will not pay you to put in a plant, or will you let your neighbour forestall you?

The necessary plant is much simpler and less costly than it was in days gone by, and taking up but a fraction of the room occupied by the old-fashioned plant. Besides this, the demand for first-class Aerated Waters is now greater than ever, and is still increasing.

☛ **See the following Page for particulars for the best Mineral Water Plant.**

BARNETT & FOSTER,

NIAGARA WORKS, 26T EAGLE WHARF ROAD,

LONDON, N., & BOLTON, LANCS.

AERATED WATER TRADE

Chemists thinking of manufacturing their own aerated waters are invited to apply for the comprehensive illustrated catalogue issued by

BARNETT & FOSTER.

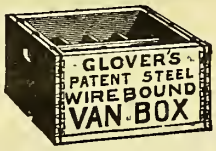
In this list will be found full particulars of everything required for the manufacture of aerated waters of the first class, and of absolute purity. BARNETT & FOSTER have long been recognised as being the leading firm manufacturing this class of goods, and, as such, have been honoured with the commands of the principal houses in the mineral-water trade, including many Chemists and Druggists who have seen the wisdom of manufacturing their own aerated beverages. The superiority of BARNETT & FOSTER'S manufactures has been fully proved by the numerous Prize Medals awarded by the juries of the principal international and other exhibitions held during the last thirty years. ***Forty-four Highest Awards, including Nine Gold Medals,*** have been so Awarded.

BARNETT & FOSTER,

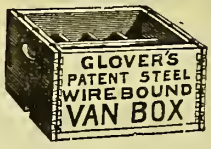
NIAGARA WORKS, 26T EAGLE WHARF ROAD,

LONDON, N., & BOLTON, LANCS.

"WHEN BUYING, BUY THE BEST."



C. H. GLOVER & CO.



HATCHAM SAWMILLS,

LONDON, S.E.

ARE THE SOLE PATENTEES AND MANUFACTURERS OF

GLOVER'S PATENT CRESCENT-STEEL WIRE BOUND

For Beers, Wines, Aërated Waters, &c., &c.

LARGEST MAKERS IN **LONDON.**

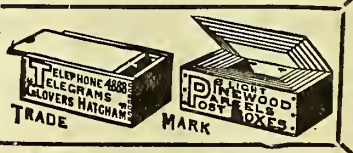
Please mention this Paper when inquiring.

"A CAPITAL IDEA"!!

Said friend JONES, the Go-ahead Chemist. "I've doubled my Trade last year since I commenced packing all my customers' prescriptions in Glover's small wood boxes."

And JONES CHUCKLED!!

WOODEN BOXES ALL SIZES MADE TO ORDER



PRICE 14/- per doz. nests of 6 Boxes, planed and hinged, from 5" × 2½" × 1½" to 9½" × 6½" × 4½". Nests of 6 for Bottles, 4 oz. to 16 oz., at same price. Single nest, 1/6. *Special Terms for Large Quantities to Shippers.*

"CAPITAL, INDEED"!!!

Said the Colonial Shipper. "Those light nested boxes, shipped in cases (each containing ½-gross nests), are just what is wanted, and I am getting repeat orders doubled. We are all indebted to the Makers, Messrs. C. H. GLOVER & CO., of Hatcham Sawmills, Ormside St., Old Kent Road, LONDON, S.E."!!

For Soda Waters, Medicated Wines, &c., &c.

LARGEST MAKERS IN **LONDON.**

Please mention this Paper when inquiring.

BOXES & CASES

OF ANY SHAPE, MAKE, AND SIZE TO ORDER.

(ANY CLASS OF BOTTLES SUPPLIED PACKED IN SAME.)

N.B.—We are also making our Patent Wire-Bound VAN BOXES in "Knock Down" form, specially

FOR EXPORT TO COLONIES.

PACKED SECURELY

In Bales,
ready for putting together
at destination.

Complete with Fittings, Nails, Wire Binding, &c., thus saving considerably in freight.

C. H. GLOVER & CO., HATCHAM SAWMILLS, LONDON, S.E.

Contractors to Her Majesty's Government. Established over 50 Years.

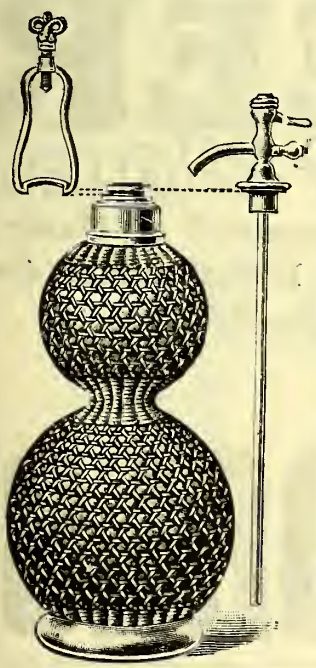
PRIZE MEDALS

AT ALL EXHIBITIONS.

EUGENE GERAUT & CO.'S

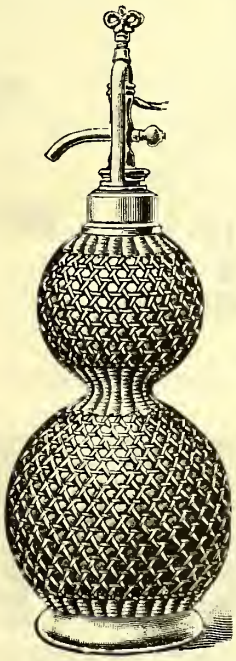
Seltzogenes and Syphons.

The Premier Manufacturers in the United Kingdom.



SUPERSEDES ALL OTHER SYSTEMS.

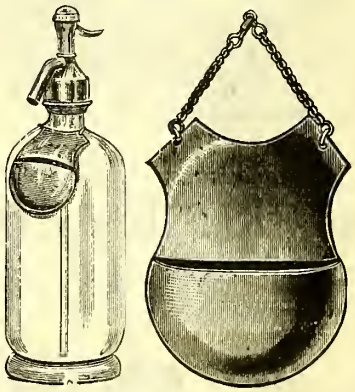
Wear and working guaranteed
No more screwing required.
Tap cannot get corroded.



PATENT No. 18305.

GREATEST NOVELTY OF THE DAY.

NEW PATENT DRIP CATCHER FOR SYPHONS.



Patent No. 144.
Wholesale Price per dozen: Nickel-plate, 10/-; Silver-plated, 13/-. *Discount for quantities.*

ORDINARY SYPHONS:
Heads Pure Tin, Burnished, Nickelled, and Silvered. Vases of extra strength, in all colours, ornamentally engraved in various sizes from 18 to 50 oz.

PRICES.

Short Lever.	Per doz.	Long Lever.	Per doz
White Glass ..	18/-	White Glass ..	18/9
Coloured Glass	19/-	Coloured Glass	19/6

In quantities of ONE GROSS.

WHOLESALE PRICES.

3 pint, wire covered	11/-	3 pint, cane covered	12/-
5 " " "	14/9	5 " " "	15/9
8 " " "	22/6	8 " " "	25/-

With silver-plated tops, extra 5/-.

POWDERS FOR ABOVE.

3 pint, in handsome labelled Boxes, containing 12 Charges, per doz.	17/-
5 " " " " " "	24/-
8 " " " " " "	38/-

DISCOUNT ALLOWED OFF FOR QUANTITIES.

Every Chemist should see this New Invention before ordering any more ordinary Screw Tops. Our Ordinary Seltzogenes are now fitted with this great improvement at a trifling extra cost.

LATEST NEW PATENT SYPHONS

With Ebonite Fittings, preventing all metal contact in waters and not breakable.

We can confidently recommend this Syphon as the most perfect ever made.

SAMPLES, PRICES, AND PARTICULARS ON APPLICATION TO OUR SOLE ADDRESS:

139 and 141 Farringdon Road, LONDON, E.C.

MASON'S EXTRACT of HERBS

Makes the Finest Beverage in the World.

FOR MAKING

NON-INTOXICATING BEER

IMITATED, BUT NOT EQUALLED.

GOOD! It's MASON'S.

One Table-spoonful of Mason's Extract of Herbs makes One Gallon of splendid Beer.

4 GOLD MEDALS

Do not be persuaded to buy any other kind, as the market is now flooded with vile rubbish, most of which contain no Herbs at all, and will not produce the same result. We guarantee ours to be COMPOSED OF HERBS.

HANDBILLS, SHOWCARDS, &c., ARE SUPPLIED WITH ALL GOODS.

SOLE MAKERS—

NEWBALL & MASON

NOTTINGHAM.

THE BERKEFELD FILTER

(PATENT.)

SEVEN GOLD MEDALS and other AWARDS. THE SCOTT MEDAL of the FRANKLIN INSTITUTE, PHILADELPHIA.

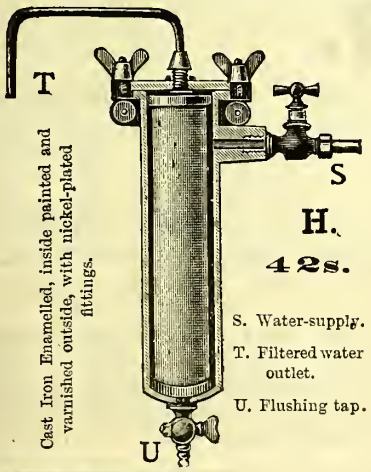
"The Filter is well adapted for Pharmaceutical Purposes."—CHEMIST AND DRUGGIST.
"These Filters represent the greatest progress made in the construction of Filters during the last 10 years.—Dr. PLAGGE.

In the Berkefeld Filter the filtering medium is in the form of hollow cylinders or candles of various sizes, made of Kieselguhr, a substance, which on account of its enormous porosity, consisting as it does of the silicious skeletons of diatoms (see sketch), is an ideal filtering medium.

The advantages claimed for the Berkefeld Filters are :—

1.—They will filter large or small quantities, according to pressure and number of cylinders.

2.—The filtrate will be absolutely free from any suspended matter and from germs, provided proper attention is paid to regular cleaning and sterilising.



3.—They are simple in construction and can be easily cleaned.

4.—They give an output of sterile filtrate from 5 to 10 times larger than any other germ-proof filter. Thus, a single-tube filter, under a pressure of 40 to 45 lbs. to the square inch, will pass 25 to 30 gallons per hour. "A performance which constitutes a record."—DR. PLAGGE.

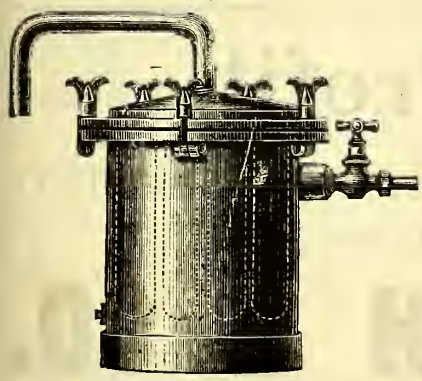
5.—The cylinders can be thoroughly sterilised by being placed in warm water and boiled for one hour.

Supplied to H.R.H. the Prince of Wales, H.M. Government, the leading London Hospitals, &c.

Abridged List of prices, subject to usual discount :—

Glass, China, Earthenware Drip Filters, **8s. 9d.** to **42s. 6d.**
Service Pressure Filters, F.B., **25s.** ; H., **42s.**
Counter Filters, **£3 3s.** ; ditto, with Ice Reservoir, **£5 5s.**
Travellers' Hand Pump Filters for the Tropics, **30s.**
Syphon Filters, Kitchen, and Well Pump Filters.
Large Supply Filters in Cast Iron and Copper, fitted with 3 to 39 cylinders, **£5 5s.** to **£47 10s.**

Chemists will find these filters a profitable line, and one which they can confidentially recommend to their customers.



Illustrated Lists, Full Particulars, and Estimates free on application.

CORRESPONDENCE INVITED.

THE BERKEFELD FILTER CO., LTD., 121 OXFORD STREET, LONDON, W.

HALL'S COCA WINE

WARNING.

The "BRITISH MEDICAL JOURNAL," February 6, 1897, in an article on "Coca Wine and its Dangers," says:—

"Originally Coca Wine was made from Coca Leaves, but it is now commonly a solution of the alkaloid in a sweet and usually strongly alcoholic wine."

HALL'S COCA WINE has always been prepared from Coca Leaves only, and has no addition of Cocaine. The basis is absolutely pure wine, equal in strength to good Burgundy. It can be safely recommended to the most delicate patient without fear of evil after-effects.

This testimony is endorsed by the "BRITISH MEDICAL JOURNAL," of February 6, 1892, which speaks as follows:—

"A preparation of Coca Leaf, bearing the name of 'Hall's Coca Wine,' has been submitted to us. It appears to be carefully prepared, and contains a large proportion of the alkaloid. The preparation is not unpalatable. Coca is undoubtedly *a valuable stimulant and tonic, and this preparation of it*, which is made by Stephen Smith & Co., Bow, E., *may be recommended as fulfilling these indications.*"

Protected Profit.

Advertising matter upon application to the Proprietors,

STEPHEN SMITH & CO.

BOW, LONDON.

MARIANI WINE

MINIMUM RETAIL PRICE, ½ doz. Bots. for **20/-**, or **3/6** per single Bottle.

In original cases of 6 dozen, **£10 4s. 0d.** net cash,
with 3 per cent. discount off 6 case lots.

SANTAL MIDY.

MINIMUM RETAIL PRICE, **3/6** per Bottle.
MINIMUM WHOLESALE PRICE, **33/-** per dozen or part of dozen.
In 12 dozen lots, **£18** net cash.

WILCOX & CO., 83 Mortimer Street, LONDON, W.
GABRIEL JOZEAU, 49 Haymarket, LONDON, S.W.

NON-EXCISABLE

COCA WINE

NO WINE LICENCE REQUIRED!

Champagne reputed pints and half-pints. Also Coca Wine (Harker) excisable.

C. R. HARKER, STAGG & MORGAN

15 LAURENCE POUNTNEY LANE, LONDON, E.C.

BURROUGH'S "RED CROSS BRAND"

COCA WINE.

WRITE FOR PRICES AND SAMPLES.

Dr. A. B. GRIFFITHS says, "Second to none in the market."—*Aug.* 24, 1896.

CALE STREET DISTILLERY,
CHELSEA,
LONDON, S.W.

Also S.V.R. & S.V.M.
At Lowest Prices.

A. MILLAR & CO., LTD., DUBLIN.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

JAMES BOULTON & CO.

LIMITED,

Chemical Manufacturers, Crayford Mills, STRATFORD.

Telegrams—"ACETATE LONDON."

MANUFACTURERS OF ALL KINDS OF

GRANULAR EFFERVESCENT

PREPARATIONS.

BRILLIANTLY SOLUBLE. THE VERY FINEST QUALITY.

Send for Samples and Quotations.

PHARMACEUTICAL & PHOTOGRAPHIC CHEMICALS.

ACIDS OF ALL KINDS.

AMMONIA—Carbonate, Liquid, Chloride, &c.

SPIRIT AMMONIA AROMAT, B.P. SPIRIT ETHER NIT., B.P.

CAMPHOR BELLS, FLOWERS, and TABLETS.

Glycerine, PEROXIDE of Hydrogen (all strengths).

FINEST NON-FREEZING COD LIVER OIL.

PULV. GLYCYRRH. COMP., B.P.

QUININE.

Essential Oils, Soluble Essences, Caramel.

POTASSIUM ACETATE (specially prepared). **POTASSIUM CYANIDE** all Strengths.

Registered Proprietors and Sole Manufacturers of the

NEW PRESERVATIVE,

For BUTTER, CREAM, MILK, MEAT, FISH, SAUSAGES, &c.

The very Best Preservative for BUTTER, MARGARINE, or MILK, being a Pure Homogeneous Chemical compound, not a Mixture.

Also the FINEST BUTTER COLOUR. BUTTERCUP BRAND.

Samples and Quotations free on application to the Mills.

POINTS ABOUT

COCA-KOLA WINE

With QUININE.

1. It is not liable to excise duty.
2. It is palatable to the taste.
3. It is effectively labelled.
4. It is a certain and powerful tonic.

5. It is extraordinary value.
6. It is without a rival.
7. It is selling wherever introduced.
8. It is not cut in price.

COCA-KOLA WINE is a combination of the powerful stimulating properties of Coca Leaves and Kola Nuts, with the tonic properties of Quinine.

IT IMPARTS TONE AND VIGOUR TO THE WHOLE BODY.

Put up in really first-class style. Bound to attract attention, command sale, and create trade.

In Apollinaris Pints, 8/- per Dozen.

POTTER & CLARKE, WHOLESALE DRUGGISTS, 60, 62, and 64 Artillery Lane, LONDON.

Beer in Bottle.

WHITBREAD & CO.

(LIMITED.)

LONDON COOPER, STOUTS, AND ALES.

SPECIALITIES: Half-crown Stout and India Pale Ale.

IN IMPERIAL PINTS AND HALF-PINTS, CORKED OR SCREW-STOPPERED.

Carriage paid, One Ton Lots, by arrangement with Customer, in accordance with Locality and Carriage Rates.

CHIEF OFFICE AND STORES—

277 GRAY'S INN ROAD, LONDON, W.C.

DEPÔTS—

170 Lewisham Road, London, S.E.
Bell Brewery, Tottenham, N.
Stag Brewery, Enfield.
Dunger Place, New Southgate, N.
21 Great Charles Street, Curzon Hall Vaults, 42 High Street, Birmingham.
The Calls, Leeds.
The Arcade, Barnsley.
M. S. & L. Ry., Sheffield.
The Arches, Pall Mall, Liverpool.
M. S. & L. Ry., Store St., Manchester.
East Wharf, Cardiff.
The Arches, Orchard Street, Newcastle-on-Tyne.

ROBERT BAKER,

SOLE AGENT

Peter Tyrer's SAUCES.

WORCESTER, READING, HARVIE, YORKSHIRE.

	Per Gross.	Extra Quality
1*d.* Sample Bottles, dozen parcels	5/3	6/6
" " ½-gross boxes	5/9	7/-
1*d.* Giant " dozen parcels	6/6	9/-
" " ½-gross boxes	7/-	9/6
¼ Bottles, flat or round, reputed ½ pints	16/-	26/-
½ " " " " pints	26/-	38/-
1 Pint Imperial, round stoppered bottles	52/-	62/-
12½-Gallon Casks (*casks free*) ...each	20/-	32/-

ROYAL CAFE SAUCE,

A RICH FRUITY & EXQUISITE FLAVOUR.

Square Glass Stoppered Bottles, containing nearly ½ pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross. 8 oz. in dozs. 3/9 per doz.

"BOROUGH" KETCHUP.

SILVER MEDAL.

Cash Price—20s. for 12½ Gallons.

CASKS FREE.

School of Cookery, Crystal Palace, S.E.,
January, 1883.

MR. PETER TYRER.

SIR,—I have been using the "Borough" Ketchup, and am very pleased with it Its flavour is excellent, both for all kinds of Savoury dishes and Soups; and I most certainly should advise every cook and housekeeper to use it, FOR I HAVE NEVER YET MET ITS EQUAL.

MARIAN SMITHARD,
[2] *Lecturess on Cookery.*

THOSE WHO BUY FOR CASH

MANUFACTORY—

30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.

CHIEF SCOTCH AGENCY—West Nile Street, GLASGOW.

CONCENTRATED

PEPTONISED COCOA AND MILK

AND

CONCENTRATED PEPTONISED MILK.

These two preparations are made with pure rich PRE-DIGESTED Country Milk, and, by mere dilution with hot water, afford a delicious restorative beverage, the assimilation of which requires no digestive effort.

SAVORY & MOORE, LONDON.

Tins, 2/6. Half-tins (samples), 1/6. Obtainable Everywhere.

van Houten's Cocoa

The "BRITISH MEDICAL JOURNAL" says:—

"It is admirable." "Perfect in flavour." "Pure and well prepared."

OVER 200 GOLD MEDALS AND DIPLOMAS.

FRY'S

Pure Concentrated

COCOA

Try also FRY'S MALTED COCOA, a delicious combination of FRY'S PURE COCOA AND MALT EXTRACT (Allen & Hanburys').

FOR INFANTS AND INVALIDS.

KYDDE'S FOOD

IS UNEQUALLED.

KYDDE & CO.

10 SOUTHWARK BRIDGE ROAD, LONDON, S.E.

BRAND & CO.'S MEAT JUICE.

IN BOTTLES,

Price 28/- per dozen,

Less the usual discount.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.

THE BRITISH MEDICAL JOURNAL says:—"Vi-Cocoa is a very palatable beverage of great stimulating and sustaining properties."

THE LANCET says:—"Vi-Cocoa must be assigned a place in the front rank of really valuable foods, since it is the embodiment of the numerous principles contained in Malt, Hops, Kola, and Cocoa . . . . *of distinct value as a restorative and stimulative food.*"

SEND FOR SPECIAL LOCAL ADVERTISING OFFER.

Available only until April 5th, 1897.

The Public say:

"There is Merit in it,"

And the Trade say:

"There is Money, Plenty of Money, in it."

AVAILABLE UNTIL APRIL 5th, 1897.

Special Local Advertising Offer.

Send your order to

Dr. Tibbles' Vi-Cocoa, Ltd.,

SUFFOLK HOUSE, CANNON STREET,
LONDON, E.C.,

and obtain your fair share of the profits that are daily being made by our customers everywhere.

A PROFITABLE EXTRA.

Wholesale only: 42 MINCING LANE, LONDON, E.C.
For Wholesale Terms and Agency apply to
PEARSE & MEEKING, Wholesale Tea Dealers,
St. Dunstan's House, Idol Lane, Eastcheap, London, E.C.

BOVRIL.

What it is!

BOVRIL is Beef, the entire lean of the Best Beef procurable. Not the Forty Pounds Weight of Beef which would have to be eaten before the nourishment contained in One Pound of Bovril could be imparted to the system, but Forty Pounds of the primest parts obtained from the finest selected Cattle reared in Australia and South America, concentrated by a special process, rendering it the most perfect form of strengthening, stimulating, easily digestible nourishment in the smallest possible bulk.

INVALID BOVRIL

Is specially prepared for use in the Sick Room. It is put up in porcelain jars and sold by Chemists and Druggists only; and it differs from ordinary Bovril in being more concentrated and quite devoid of seasoning, and is relished and retained by Invalids when ordinary food and stimulants are rejected.

BOVRIL, Ltd., Food Specialists, LONDON.

Chairman—Rt. Hon. Lord PLAYFAIR, K.C.B., LL.D.

TOWER TEA.

The Best and the Cheapest in the World at the Price.

In ¼, ½, and 1-lb. Packets only, to Retail at 1/-, 1/2, 1/4, 1/6, 1/7, 1/8, 1/10, 2/-, 2/4, 2/8 per lb. Also in Handsome 1-lb., 3-lb., and 5-lb. Decorated Tins, to Retail at 1/10, 2/-, and 2/4 per lb.

Agents appointed by

TOWER TEA, LIMITED, 5 JEWRY STREET, LONDON, E.C.

NESTLÉ'S MILK.

Condensed SWISS

THE RICHEST IN CREAM.

PERCENTAGE OF BUTTER FAT.

Six Samples of NESTLE'S MILK bought at random at six different shops, and analysed by Mr. OTTO HEHNER, late President of the Society of Public Analysts, contained AN AVERAGE OF

13·13 per Cent. of BUTTER FAT.

Sample Tins sent free to the Medical Profession on application to HENRI NESTLÉ, 48 Cannon Street, London.

CADBURY'S
COCOA

Absolutely Pure, therefore Best.

CADBURY'S is a perfectly safe and reliable Cocoa, containing the full nourishing properties of the Cocoa bean, without any foreign admixture whatsoever. As a sustaining, strength-giving beverage, and a nourishing food, it fulfils every requirement. The "Lancet" says of Cadbury's Cocoa: "In connection with the evidence afforded by a microscopic examination, the results leave no doubt of its purity and excellence, and the figures relating to the alkalinity of the soluble ash in particular show that there has been no treatment with fixed alkalies, or with ammonia, according to other chemical tests. It represents, therefore, the standard of highest purity at present attainable in regard to Cocoa."

CADBURY'S
COCOA

Is Light, Refined, and Digestible, and can be safely and beneficially taken as an article of Daily Diet at all times and all seasons. It is at once a stimulating Refreshing Drink, and a Nutritious Food.

Samples &c., from Cadbury's, Bournville, near Birmingham.

HILLABY'S HIGH-CLASS LIQUORICE.

SUPPLIED IN HANDSOME ENAMELLED TINS.

Opinions of FREDERICK DAVIS, Esq., B.Sc., Member of the Society of Chemists, Newington College of Chemistry, 26 and 28 Newington Causeway, London, S.E.

"Liquorice Wafers of singular purity, consisting of Liquorice extract and Pectin, possessed of very delicate flavour; and I am further of opinion they are especially adapted for children and others requiring the demulcent and emollient principles of the liquorice plant in a palatable and convenient form."

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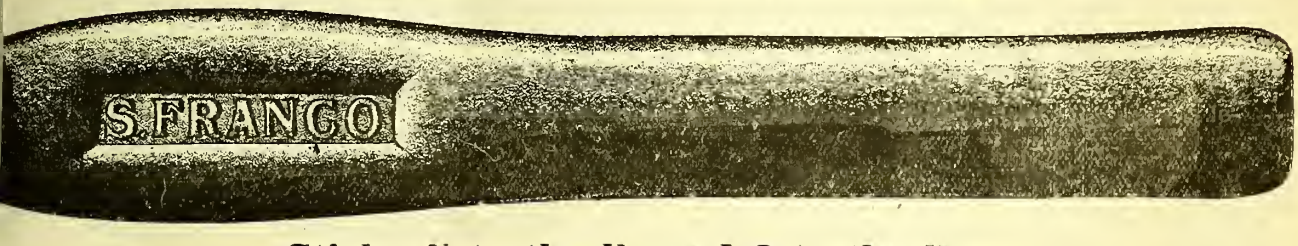

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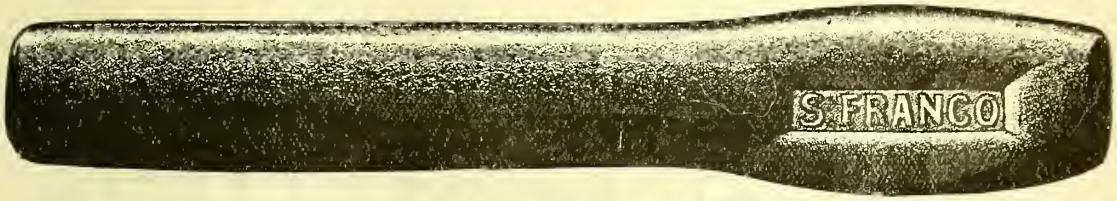

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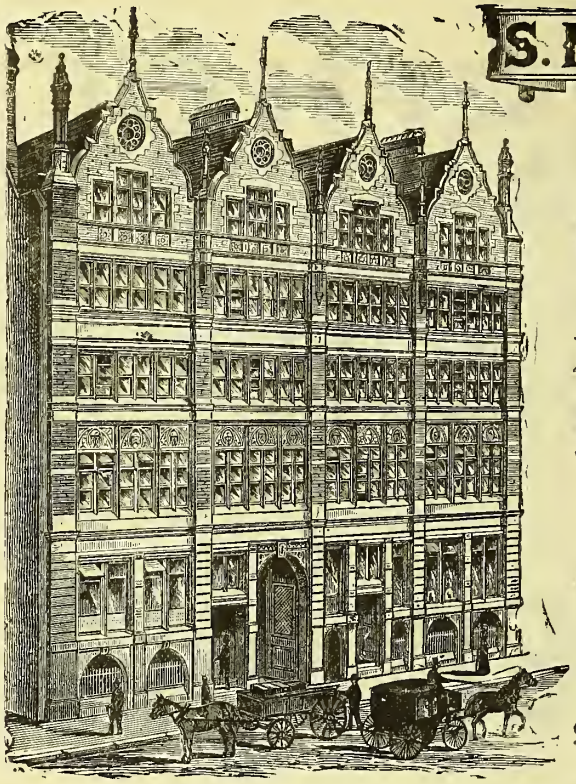

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Powell & Barstow
Quelch, H. C.
Robinson & Sons
Sanitas Co., Lim.
Schutze, F., & Co.
Victoria Rubber Co
Wood, Vincent
Woodruff, T.

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
British Syphon M.f.g. Co.
Chemists' Aerated and Mineral Waters Association, Lim.
Geraut, E., & Co.
Idris & Co., Lim.
Kilner Bros. | Melin, C.

SYRUPS
Beckett, W., Sons & Co.
Blyton, Astley & Co.
Fletcher, Fletcher & Co. (Liquors)
Stevenson & Howell
Volcanic Aeration Co.

TABLETS
Allen, A.
Blyton, Astley & Co. (Sulphur)
Corsan, J. R. (Advertising)
Davies, Gibbins & Co.

TEA
Pearse & Meeking
Tower Tea, Lim.

THERMOMETERS
Ayrton & Saunders
Bailey, W. H., & Son
Darton, F., & Co.
Hicks, J. J.

TEETHING PADS
Cartwright, A. S.
Marriott, E., & Co.

TOBACCO & CIGRS
Singleton & Cole, Lim.

TINCTURES
Blackwell, Hayes & Spilsbury
Davies, Gibbins & Co.
Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Parke, Davis & Co.
Sinclair, Phillips & Co.
Wyleys, Lim.

TOILET
Ayrton & Saunders
Beetham & Son
Burroughs, Wellcome & Co.
Dee Oil Co., Lim. [(Lanoline)
Hovenden & Sons
Lynch & Co., Lim.
Maw, S., Son & Thompson
Moise & Marshall, Lim.
Pinnacle Soap Stand Co.
Sanitas Co., Lim. [Co., Lim.
Sharp Bros. Soap & Perfumery
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)
Truefitt, H. P., Lim.

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Lutheni & Co.
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Wilson, A. (Bunter's)
Woods, M. (Areca)

TRADE MARKS
Browne, T. B.

URETHRANE
Howards & Sons
Vaccine Association (Lymph)

VACCINATION
Maw, S., Son & Thompson
Vaccine Association (Lymph)

VALUERS AND TRNSFR AGNTS
Berdoe & Co. | Brett, F. J.
Crocker, G. B., & Co.
Ferguson & Osborne
Orridge & Co.
Tomlinson, Thos., & Son

VASELINE
Chesebrough Co.

VETERINARY
Bird & Storey
Dawes, G. F. | Day & Sons
Day, Son & Hewitt
Elliman, Sons & Co.
Harvey & Co. | Leng, A., & Co
Lloyd, T. Howard, & Co.
Rookledge, F. E.
Sanitas Co., Ld | Spratt's (Dogs)
Walker, Troke & Co.
Willson, S. (Pig Powders)

VINEGAR
Grimble & Co.

VINOLIA Superfatt'd
Blondeau et Cie.

WEED KILLER
Acme Chemical Co., Lim
Mark Smith, Ltd.
Sanitas Co., Lim.
Tomlinson & Hayward

WHOLSLE & EXPT DRUGGISTS
Allen & Hanburys
Allen, S., & Son | Baiss Bros.
Parron, Harveys & Co.
Bleasdale & Co., Lim.
Brook, Parker & Co. (Botanic)
Burgoyne, Burbidges & Co.
Push, W. J., & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Ferris & Co. | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Harrington Bros.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Potter & Clark
Raimes & Co.
Raimes, Clark & Co.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Taylor & Colledge
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS, BEER, &c.
Burgoyne, P. B., & Co.
Burroughs, J.
Coleman & Co., Lim.
French Hygienic Socy. (Cocs)
Goodall, Backhouse & Co.
Holloway, E. A.
Mead Manufacturing Co. (Vin Kafra)
Millar, A., & Co. (Orange)
Phillips, G., & Co. | Robinson, B.
Smith, S., & Co. (Orange)
Stevenson, H. E., & Co.
Symons, J., & Co., Lim.
Warren, A. & J.
Whitbread & Co.
Wilcox & Co
Wright, Layman & Umney
Wyleys, Ltd.

EARLY NOTICE OF FORTHCOMING REMOVAL TO LARGER PREMISES.

VINCENT WOOD,

3 ST. ANDREW'S STREET, HOLBORN CIRCUS,

MANUFACTURER ON THE PREMISES OF

Surgical Elastic Hosiery, Abdominal Belts, Suspensory Bandages, Trusses, Chest Expanders, Chest & Lung Protectors, & Surgical Appliances generally.

In order to meet the requirements of my rapidly-increasing business, I have acquired the lease of premises situated at

4 ALBION PLACE, BLACKFRIARS BRIDGE,

and am fitting them up with Plant and Machinery of the most modern type. The Offices, Showrooms, &c., will also be located at the New Premises, to which I shall be removing during the present quarter. (Due notice of the exact date of transference will be given.)

The Building consists of five Floors, ample space being allotted to the various departments, and with an increased staff of skilled employés (all British) I shall be enabled to execute all orders with the utmost promptitude. SPECIAL ORDERS will be put in hand immediately on receipt, and if telephoned for can be made and ready waiting for messenger to call, or despatched according to instructions. Special Orders received by post will, however difficult, invariably be despatched same day as received.

If you have not yet purchased goods from me, I trust you will favour me with a Simple Order, as a comparison of Prices, Workmanship, and Quality will convince the most conservative buyer that my goods are the best in the trade.

NOTTINGHAM DEPOT: THOMAS GLOVER & SON.

Works and Offices for Nottingham: MAIN STREET, CARLTON, NOTTS. | Elastic Hosiery Factory: WORTH STREET, CARLTON, NOTTS. | Steam Mills and Rubber Works: GRANT STREET, NOTTINGHAM.

SOLE PROPRIETORS OF

The Surgical Hosiery Company, Nottingham. | Wm. Brettle, Main Street, Carlton | Thos. Huckaby, Worth Street, Carlton, Notts.

N.B.—The various Factories will continue to Manufacture Stock and the Materials used in the Business only.

Established over 60 Years.

Telegraphic Addresses { "ACME," LONDON. "GLOVER," CARLTON, NOTTINGHAM. | TRADE MARK V. W. L. "EUREKA."

FRANCIS NEWBERY & SONS,

DRUGGISTS' SUNDRIESMEN,

WHOLESALE PERFUMERS, & DEALERS IN PHOTOGRAPHIC MATERIALS,

1 & 3 KING EDWARD STREET, LONDON, E.C.

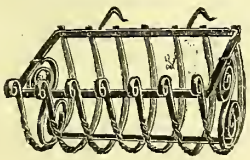
Chemists who wish to increase their Profits will do well to pay attention to the following goods, which are thoroughly established and sell wherever shown.

CARBOLIC TOOTH POWDER

Small size	*Per doz.* 2/3
Large „	„ 4/-

ROSE TOOTH POWDER .. *Per doz.* 2/6

One Gross Orders printed with Customer's own Name and Address free.



SPONGE RACKS

Quite new. Made of twisted iron. Very strong, yet light and artistic.

In nests of 2, *per doz.* nests, *i.e.* 2 doz. racks, 20/-

DISPENSING BOTTLES

Round Corners

2 oz.	*Per gross* 7/-
3 oz. and 4 oz...	„ 8/-
6 oz. and 8 oz...	„ 9/6
10 oz.	„ 13/-
12 oz.	„ 15/-

ENEMAS

Black Cut Sheet	*Per doz.* 18/-
Ditto, with Metal Protector on Valve	„ 19/-
Ditto, in Improved Box, with Glass and Gum Elastic Vaginal Pipes	„ 23/-

"ST. PAUL'S" BRAND

PERFUMED TOILET SOAPS

These Soaps are of the highest quality, free from all injurious compounds, very nicely Perfumed, and got up in a very saleable way.

Each Tablet is wrapped, and there are 12 Tablets in a Counter Case, with Show Card on hinged lid. No Proprietor's name appears on these Soaps.

4*d.* Cold Cream and Oatmeal	*Per doz.* 2/3
4*d.* White Rose and Cucumber ..	„ 2/3
4*d.* Glycerine and Cucumber	„ 2/3
6*d.* The "CATHEDRAL" Soap ..	„ 3/2

Chemists and Perfumers who desire to cultivate a higher class of trade will find the above Soaps much liked by persons who do not care for the many common Soaps now on the market.

Fig 206G.

Fig. 206H.

Fig. 206I.

PERFUMES ("ST. PAUL'S" Brand)

6 Sprinklers	*Per doz.* 3/9
6 Capped	„ 3/6
1/- Sprinkers	„ 7/-
1/- Capped	„ 6/9

Assorted Shapes, viz. Cannons, Ovals, Globes, Lubins, Lundborgs, and Squares.

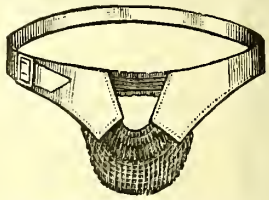
1/6 Stoppered Lundborgs	Fig. 206G.	.. *Per doz.* 12/-
2/- „ „		.. „ 16/-
3/- „ „		.. .. 24/-

NOTE.—Write for Special List of Perfumes, showing facsimiles of bottles, too numerous to mention here.

COTTON WOOL Per lb., 10*d.*, 1/-, and 1/3
LINT Per lb., 1/3, 1/8, and 2/6

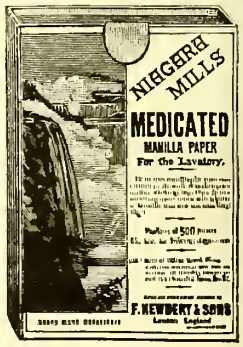
PAPYROLES

6*d.* Non-Perforated	*Per doz.* 3/-
6*d.* Perforated. Special new roll	„ 3/-
6*d.* No. 3. Perforated ..	„ 3/6
7*d.* "Monster," 1000 sheets, special. Perforated ..	„ 4/9
8*d.* 1st Quality	„ 5/-
8*d.* 2nd Quality	„ 4/-
9*d.* Thin Manilla No. 1 ..	„ 6/-
1/- Medicated	„ 7/6
1/- Non-Medicated No. 1 ..	„ 7/6



SUSPENSORY BANDAGES

No. 61. Retail 1/-	*Per doz.* 7/6
Silk „ 2/-	„ 15/-



NIAGARA MILLS MANILLA CURL PAPER

Large Cartons, Retail 1/6 ..	*Per doz.* 9/-
Per case of 50	„ 36/-

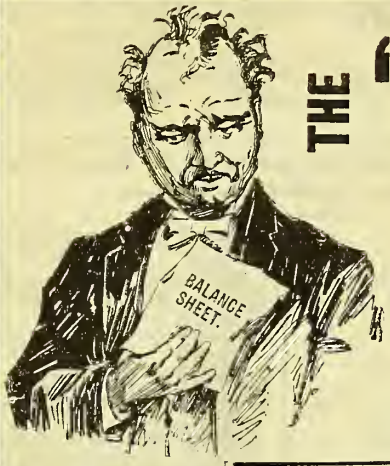
CASE FREE

THE "IMPERIAL" LAVENDER SMELLING SALTS

In Actinic Green Bottles.

Small Size 4/- *per doz.*
Large „ 8/- „

TO PREVENT DISAPPOINTMENT ORDER EARLY.



THE "FLY CEMETERY"

BY ROYAL LETTERS PATENT.

NON-POISONOUS!

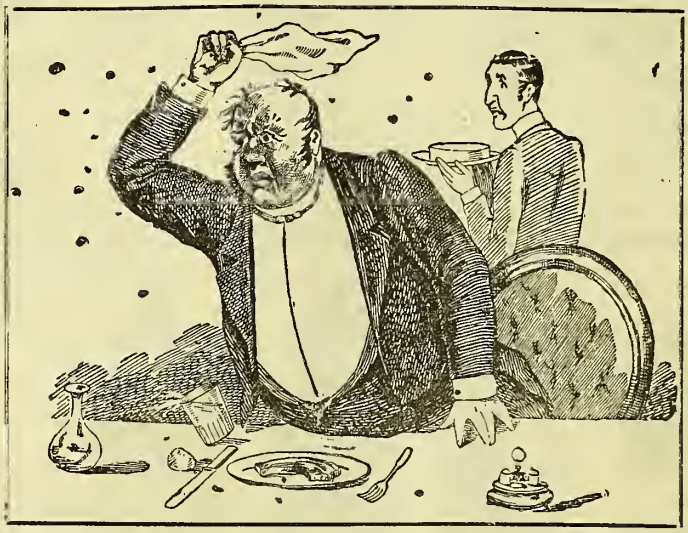
The Original and by far the BEST Sticky Fly Paper in the market.

ANNUAL SALE MILLIONS.

END OF SEASON.

This Gentleman would NOT stock the "Fly Cemetery."
RESULT:
DISAPPOINTMENT.

Catches more Flies in a day than the old-fashioned Papers do in a week.



PRICE ONE PENNY.

Well known in every Household in the Kingdom.

Bears Large Profits.

The immense popularity of the **"FLY CEMETERY"** with the public has had the usual result attending the introduction and prosperity of all genuine articles in raising up a host of *imitations*, which for the most part disappoint the purchaser. We therefore warn our friends not to be misled by specious announcements, but when they order Sticky Fly Papers to insist upon having the **"FLY CEMETERY."**

SOLD BY ALL THE LEADING WHOLESALE HOUSES.
LIBERAL TERMS.

IMPORTANT NOTICE.

In order that our Customers may not suffer any loss through deterioration of Stock kept during the Winter, we are willing to Exchange any thus left over for Fresh Stock at the commencement of a new Season. We only ask our friends to assist us by ordering judiciously, especially towards the latter part of the Season.

END OF SEASON.

This Gentleman DID stock the "Fly Cemetery."
RESULT: GOOD BUSINESS.

SAMPLES AND TESTIMONIALS FROM

TUNBRIDGE & WRIGHT, MANUFACTURERS, READING.

North of England Depot: 4 GALLOWGATE, NEWCASTLE-ON-TYNE. Telegrams: "FLIES READING."

WISE SAYINGS WITH A MODERN APPLICATION.

The hasty angler loses the fish, but Buchan's Enticer is a sure catch in "FLIES."

BUY THEREFORE

THE PERFUMED STICKY FLY ENTICER.

1D. **1D.**

Fly Enticer Gum.

Tins 2d. each.

The Surest and Best Fly Catcher.

TRADE MARK (Registered).

Death Jam.

Kills Wasps, Mosquitoes.

Tins, 6d., 1/-, and 2/6.

Most Alluring and very Sticky.

Send for Samples NOW, Post Free.

To be obtained from the principal Drug and Sundries Houses, or from the Manufacturer—

D. D. BUCHAN, FRIOCKHEIM, N.B.

Telegrams—"BUCHAN FRIOCKHEIM."

Sole Export Agents—BURGOYNE, BURBIDGES & CO., 16 Coleman Street, London, E.C.

COPYRIGHT.

5/- per gross, Carriage Paid. Cash must accompany order.

Samples free, **CHRISTY STRONG, READING.**

THE

FLYODOOMO

FLY STICKERS

Catch Flies and Hold Them.

They are the Cleanest, Stickiest, and Best Fly Papers in the Market.

Carefully rolled up so that the Composition cannot possibly get outside.

Large Buyers should write for Samples and Quotations.

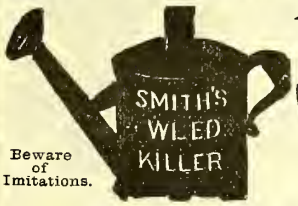
½**d.** and **1d.** SIZES.

Sample Gross, Carriage Paid, on receipt of P.O. for **5/-**

Having fixed up new and improved machinery, the proprietor can execute all orders with celerity and dispatch.

AGENTS—
LONDON—Messrs. Sanger & Sons; Messrs. Barclay & Sons; W. Sutton & Co.
MANCHESTER — Messrs. Woolley, Sons & Co.
THIRSK—Mr. W. Foggitt.
YORK—Raimes & Co.
LIVERPOOL—John Thompson.

JOHN H. SMITH, NEWARK-ON-TRENT.



Beware of Imitations.

Agents Wanted.

SMITH'S PATENT 'PERFECT' POWDER

WEED KILLER.

By arrangement with Patentee.

A SCIENTIFIC TRIUMPH!

Nothing like it ever seen before.

The Original and Only Genuine.

Immediately Soluble in Cold Water. One Small Tin makes 25 Gallons for use. ALL TINS FREE. Sold in Handsome Enamelled Tins.

THE WEED KILLER OF THE FUTURE.

Only One-Eighth the Bulk and One-Fifth the Weight of the Liquid Preparations.

Agents will at once appreciate the above enormous advantages. Liberal trade terms on application. The only Weed Killer adapted for export. Also in liquid. SOLE PROPRIETORS:

MARK SMITH, Ltd., Louth, Lincs.

All our Manufactures bear these Registered Trade Marks.

"ESSETS"

DISINFECTING FLUID.

"ESSETS"

DISINFECTING POWDER.

"ESSETS"

DISINFECTING SOAP AND TOILET PREPARATIONS

One gallon of "Essets" Fluid is sufficient to make 1,000 gallons of Disinfectant.

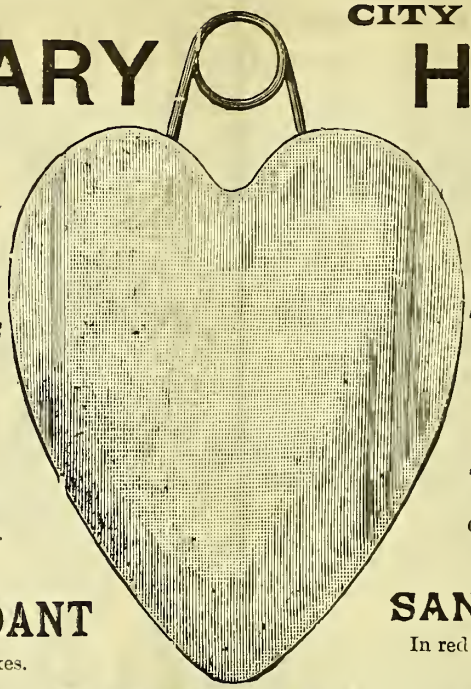
Send for Corroborative Reports, Testimonials, Price Lists, and Particulars to—

A. GRANVILLE & CO., 102 High Street, Battersea, S.W.

AGENTS WANTED.

THE CITY OF LONDON

SANITARY HEART.



DISINFECTANT, ANTISEPTIC, AIR PURIFIER.

A SAFEGUARD against EPIDEMICS and all INFECTIOUS DISEASES.

Retails at 3d.
EACH IN A BOX.

Trade price **2s.** per dozen.

Cash with order, or through Wholesale Houses.

Also the PENNY

SANITARY PENDANT

4/9 per gross, in ½-gross boxes.

DEODORISER, VITALISER, INSECT DESTROYER.

Keeps MOTHS & other INSECTS from CLOTHES.

Retails at 3d.
EACH IN A BOX.

Trade price **2s.** per dozen.

Cash with order, or through Wholesale Houses.

ALSO THE

SANITARY 'SLATE'

In red and gold or blue and silver frames, **8/-** per dozen.

Pleasant, Fragrant, and Ornamental.

SOLE PROPRIETORS AND MANUFACTURERS—

J. BEEDZLER & CO. (Established 1700.) **20 NORTON FOLGATE, LONDON, E.C.**

CAMPHORTAR

8/- per Gross.

CAMPHORTAR

A combination of Camphor, Eucalyptus, and Coal Tar. A powerful Disinfectant, Deodoriser, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

HEBDEN'S

CHLORIDE OF LIME

IN

AIRTIGHT, ODOURLESS, WATERPROOF PACKETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES

Samples on application.

Manufactured only by

W. C. HEBDEN, Albany Works, HALIFAX, **YORKSHIRE.**

DUSSEK BROS. & CO.

MANUFACTURERS OF

SANITARY FLUID

Of all strengths, soluble in water to any extent, forming a milky solution.

CARBOLIC ACIDS

Crude and pale, of all strengths.

CARBOLIC POWDERS

All Colours, containing 5%, 10%, 15% genuine Carbolic Acid. Packed in Casks, Bags, and Tins of all sizes.

PATENT 'SANO' FLUID

A superior Disinfectant for Hospital and indoor use. Soluble in Water.

COAL TAR & ROSIN PRODUCTS, GREASES, OILS, VARNISHES, DUBBIN, AND PITCH of all kinds.

DUSSEKS WHARF, VERNEY ROAD, **S.E.**

Telegrams "DUSSEK LONDON." Telephone No. 8,239.

COCKROACHES CONQUERED AT LAST

RAMSDEN'S

COCKROACH & BEETLE PASTE.

AN INFALLIBLE REMEDY FOR THE PEST.
SIMPLE AND SURE.

This Paste was used at the Sheffield Workhouse, where Cockroaches and Beetles had become a veritable plague. Also used with success in several country mansions.

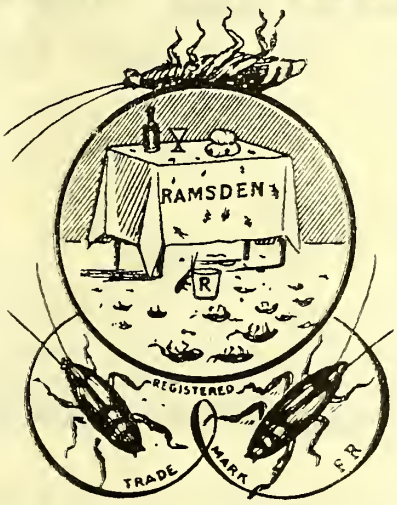
This Paste to be obtained from Chemists and Druggists, or the Makers,

RAMSDEN & BIRCH, Rolleston, Burton-on-Trent.

The RAMSDEN COCKROACH and BEETLE PASTE depends for its success on its ingredients having a decided attraction for Cockroaches, if only eaten in smallest quantity. Before offering it for sale, its efficiency was tested at the Sheffield Workhouse, where it was entirely successful. See *Sheffield Daily Telegraph*, July 2nd, 1896, also *Chemist and Druggist*, August 29th, 1896.

Living Cockroaches live on their dead companions, and in this way the Ramsden Paste continues its fatal work when the Cockroaches have retired to their hiding places. Every female Cockroach killed in winter prevents a brood of hundreds in the summer.

SOLD IN TINS at 5s., 3s., 1/6, and 9d.



FROM A CHEMIST IN LONDON.

Mr. Tomlinson, Chemist, 2 Lower Seymour St., Portman Square, W., was induced to give the RAMSDEN COCKROACH AND BEETLE PASTE a trial in his own kitchen. The Paste was spread on cards, and placed on the floor where they had for a long time been most numerous. His servants were perfectly astonished at the result; it more than justified the most sanguine expectation. Very few have been seen since this one application, more than two months ago, and only then single specimens.

Finding it so successful a remedy he has been induced to become the Agent for it in London, believing it has not its equal for exterminating the abominable pests.

32 ST. JAMES'S PLACE, LONDON, S.W.,
JANUARY, 1897.

DEAR SIR,

I cannot resist writing to let you know of the extraordinary effect of your BEETLE AND COCKROACH PASTE. The 3/6 tin I had from you has cleared my house of these pests, after laying it about in the kitchen three times in one week.

Previous to using the "Ramsden Paste" the Beetles were very troublesome in the kitchen, but now they are gone. I have spent a good bit at different times on Beetle Powders and Paste, but they have had very little effect.—I am, yours truly,

JOHN MACKAY.

P.S.—You are quite at liberty to make what use you like of this.—J. M.

RAMSDEN & BIRCH, Rolleston, BURTON-ON-TRENT.
Terms to the Trade on application.

CALVERT'S

Carbolic Disinfectants,

SOAPS, TOOTH POWDER, OINTMENT, &c.

Are the ONLY RELIABLE PREPARATIONS.

Awarded 76 Gold and Silver Medals and Diplomas.

F. C. CALVERT & CO., P.O. Box 513, MANCHESTER.

INSURANCE AGAINST THE RAVAGES OF MOTHS.

RUDKIN'S MOTH-BRICKS

(REGISTERED).

When USED ACCORDING TO DIRECTIONS, are thoroughly effective for 3 or 4 years. They have been perfected by many years of experience. They may be sold with confidence. They are attractively put up, and sell at sight if given the chance. They are really the cheapest thing of their kind in the market.

Price 6d. each, or 5/6 a dozen retail.

OF ALL THE LONDON WHOLESALE HOUSES, AND DRANE, CARDIFF.

In 1 and 2 gross boxes, or tin-lined cases for export of 50, 100, and 250 dozen.

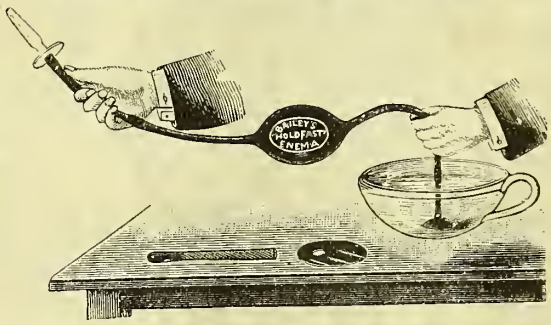
Quite New ! ! !
Really a Great Improvement.

BAILEY'S HOLDFAST SEAMLESS ENEMA.

WITH NEW PATENT "ANCHOR" SUCTION END.

THE CHEAPEST AND BEST ENEMA OUT.

THE LANCET,
June 15, 1895.
"It is *entirely free from metal.* The end which is placed in the solution to be injected is fashioned on the principle of the 'sucker,' so that when pressed it forms a vacuum and *adheres so firmly that the basin may be lifted up by it (as shown in the woodcut).*"



BRITISH MED. JOURNAL,
Sept. 14, 1895.
"The India-rubber disc adheres so firmly that the end cannot possibly slip out. No danger of wetting the bed-linen, or admitting the air. The end makes no noise."

THE HOSPITAL,
July 13, 1895.
"Nurses should be grateful for this admirable invention."

	Per doz.
Best Polished Black Seamless Rubber, in Oval Leather-covered Case	49/-
" Unpolished Drab " " "	36/-
Special Hospital Holdfast (Pure Red Rubber, with Vulcanite Clyster Pipe only, no box for Midwifery Bag, with improved "Pulse Valve," which cannot get stopped.)	36/-

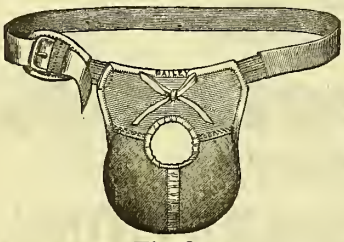


Fig. 2.

BAILEY'S SUSPENSORY BANDAGES

A. B. C. SYSTEM.

The large and increasing number of orders from abroad proves the truth of

What "THE CHEMIST AND DRUGGIST" says:—

Every retailer knows what a worry it is to get a customer suited with a bandage when it has to be picked out of a drawerful of all sizes. Messrs. Bailey's system is to mark every bandage with a number and letter—4B, for instance. By referring to the list, one finds that No. 4 is so-and-so, and the letter B indicates the size. If B is too large, A can be supplied; if too small, then size C. In the case of hydrocele, where a continually increasing size is necessary, it will be seen how very convenient this system is for ordering. Apart from that, there is the convenience in stocking the bandages. Each one is put up in a neat slide-box, labelled at one end with the size and style, thus :—

To repeat quote No., 4B SILK.

So that they are easy to pack away, easy to fit, and easy to sell, while the quality is excellent.

Cabinet of 2 dozen assorted, 30/- USUAL DISCOUNT. Containing—

TRY THIS!

6 No. 1, with tape understraps	Cotton Bags	Fig. 1 ...	per doz.	8/-
6 No. 2, " drawing strings		Fig. 2 ...	"	10/-
6 No. 4, " "	Silk Bags	Fig. 2 ...	"	18/-
3 No. 6, Super with "		Fig. 2 ...	"	24/-
3 No. 8, " " button-bags		Fig. 8 ...	"	24/-

W. H. BAILEY & SON, 38 OXFORD STREET, LONDON, W.

TELEGRAPHIC ADDRESS—"BAYLEAF LONDON."

GOOD PROFITS—25 to 33 per Cent.

ON

ALLCOCK'S POROUS PLASTERS.

The Trade will please take notice that on and after this date ALLCOCK'S PLASTERS will be placed on the P. A. T. A. List, and the Prices will be—

12 Gross, £3 6s. per Gross.
1 „ £3 9s. „ „

Less quantities, 6/- per dozen.

The minimum selling price of the 7½d. size will be 7d., but in all cases the dealers should be able to obtain the full price of 7½d.

Retailers requiring printed matter, show-cards, hand-bills, &c., please address

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European and Colonial Depot—

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Below will be seen a rough photograph of our tins of Health Salt, showing the style of tins and bottles, and also in some degree the kind of label used. Our travellers carry full specimens of these, which they will be glad to show, or we will post direct upon receipt of post card. The tins used are the ordinary ones, but to those who prefer them we will supply the "lever" lids at Two Shillings per gross extra. For Export we certainly recommend the "lever" lid, as we find the contents keep better. Every Chemist who orders one gross may have his name

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Round Tins ...	30/-	per gross net.
Square Tins ...	32/-	
Bottles (6-oz.)	45/-	

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Eagle Laboratories,
Manchester.

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Is prepared from the finest selection of prime lean beef obtainable, and in the process every possible precaution is taken that absolute cleanliness is observed.

Obtained by cold expression it contains a large percentage of albuminoids in perfect solution, and is of high value as a nourishing food in all cases of Fever, Influenza, Gastric Irritation, &c.

The accompanying representation is a facsimile of the amber flagon used, which contains **2½ fluid ounces** and **retails at 2s.**

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NEW AND POWERFUL DISINFECTING FLUID.
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More powerful than Carbolic Acid, and does not stain or burn in use.

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Our position as Importers of large quantities of Lemons enables us to select fruit coming from districts that we have found from experience will produce the best results. We are, therefore, enabled to make a Superfine Essence of uniform character, which retains as nearly as possible the natural flavour and delicate aroma of the fresh fruit.

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AND BEST PURE BLEACHED CARNAUBA WAX.

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A Striking Success!

A PERFECT BLAUD'S PILL.

Vide "CHEMIST AND DRUGGIST."

Pharmacists handling our

Bipalatinoids of Blaud's Pill (O., S. & CO.)

find them a "great advance" on the old-fashioned inert Blaud's Pill mass and compressed forms, as they are very saleable, their value being fully recognised by Physicians and their Patients. We secure a fair profit by *discountenancing all Cutting.*

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Awarded Only Gold Medal, Rome, 1894, for Purity, Excellence, and Originality.

PROFESSOR NOTHNAGEL (Vienna) remarked on this occasion that the "Bipalatinoid" was the *only real pharmaceutical advance he had seen for ten years.*

BIPALATINOIDS (O., S. & Co.) **are**

Scientific Substitutes for Blaud's Pill and Compounds.

This form of medication enables the Chemist to dispense the unstable Blaud's Pill formula and incompatible drugs in one tiny cachet, easily swallowed, with certainty of beneficial results. Iron given in this form does not stain the teeth or give rise to gastric irritation, and can be administered with full confidence in cases of Anæmia, Chlorosis, Oligæmia, Debility, Amenorrhœa, and various other diseases.

☛ *High Medical Authorities confirm these Facts.*

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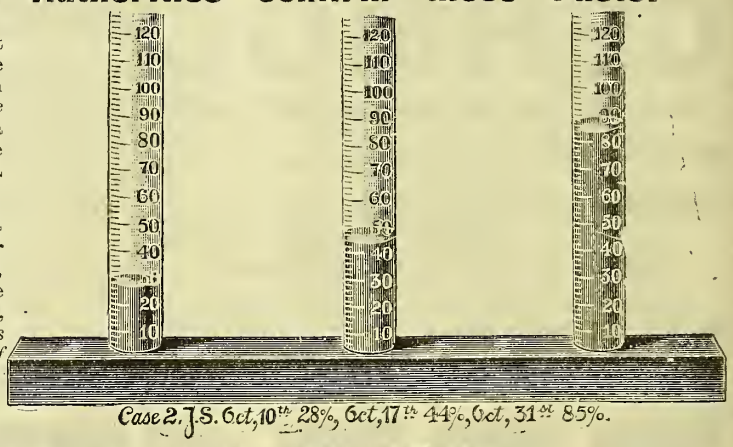
See **Official Report to Research Committee (British Medical Association) for purposes of Scientific Research, 1896, page 47.** "From observations (during the treatment of thirty cases of Anæmia, Chlorosis, &c.) with various Iron preparations, *Ferrous Carbonate in the form of 'Bipalatinoids' of Blaud's Pill gave the best results.*"

"A Perfect Blaud's Pill."—The Lancet.



Case 2. J.S. Oct, 10th 28%, Oct, 17th 44%, Oct, 31st 85%.

FORMULÆ SUGGESTED BY PHYSICIANS.

	Per Gross.
Equivalent to ½, or 1 Blaud's Pill	2/6
Equivalent to 2 Blaud's Pills...	3/6
Equivalent to 1 Blaud's Pill with Sodium Arseniate gr. $\frac{1}{32}$	3,6
Equivalent to 1 Blaud's Pill with Ext. Caseara Sagrada gr. ¼	3/6
Equivalent to 1 Blaud's Pill, Creasote min. 1 ...	3/6

	Per Gross
Creasote min. 1, Soda Mint...	3/6
Creasote min. 1, Menthol gr. ¼	4/6
Creasote min. 1, Easton Syrup = ʒss.	4/6
Creasote min. 1, Calomel gr. 1	3/6
Equivalent to 1 Blaud's Pill, Red Bone Marrow grs. 2½	4/6

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Highly Saleable both at Home and Abroad.

Cream of Malt Products (O., S. & Co.)

Is a well-known Tonic Food, invaluable in all cases of Chronic Dyspepsia, Acute Fevers, Convalescence, and all diseases accompanied by Debility and Emaciation. Being concentrated exhaust of the best Scotch Winter Barley, prepared with extreme care, so that it retains a full proportion of digestive "Diastase," Demulcent and Sedative Maltose, alterative and blood-purifying Phosphates, &c. Will keep in any climate. *Never congeals, ferments,* or *crystallises.*

Small bottles, per doz. 20/-
Large bottles ,, ... 36/-

Cream of Malt with Cod-liver Oil and Hypophosphites consists of Cream of Malt (O., S. & Co.) in which the purest Norwegian Cod-liver Oil has been completely dissolved, the honey-like flavour of the Malt covering perfectly the nauseating taste and odour of the Oil, and enabling the most delicate stomach to retain this valuable Food Medicine, which, when *given alone*, always gives rise to eructations, and is often vomited at once; and the Hypophosphites of Lime, Potash, and Soda, well-known tonics to bone, blood, and nervous system generally.

"A perfect food for Bone, Blood, Brain, and Muscle."
—BRITISH MEDICAL JOURNAL.

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Liq. Euonymin. et Bismuth. Co....	10/6
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Liq. Helalin. et Pepsin. Co. ...	10/6
Liq. Helalin. et Bismuth. Co. ...	10/6

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These preparations are ***not cut,*** and therefore offer a fair profit ***to the Pharmacist!***

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CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION.**

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

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Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.

Australian Address :—456, Collins Street West, MELBOURNE. *Cable and Telegraphic Address :—"BURCOME, LONDON."*

'Lanoline'

Is a preparation of the purified cholesterin fat of lamb's wool, nearly identical with the fat of the human skin and of the hair glands. It readily penetrates the skin and renders it soft, smooth and supple. It possesses a distinct advantage over other ointment bases in being miscible with water and aqueous solutions of salts. Being free from septic contamination it is the only trustworthy ointment basis for antiseptic purposes. 'Lanoline' is supplied at 2s. 8d. per lb.

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TOILET 'LANOLINE' is an exceedingly effective emollient and protective to the skin in cases of roughness, redness, abrasions, cuts, burns and eruptions. It may also be applied to any mucous membrane. Toilet 'Lanoline' is supplied in collapsable tubes at 4s. 6d. and 9s. per dozen.

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Fitted complete, 3s. 6d.

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The "Chemist and Druggist" reports that chemists are deriving considerable profit by supplying the B. W. & Co. 'Congo,' or similar 'Tabloid' Medicine Chests, to the ambulance corps of volunteers for camp use.

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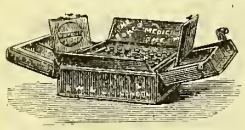

Fitted complete from £10.

Full particulars will be sent on application.

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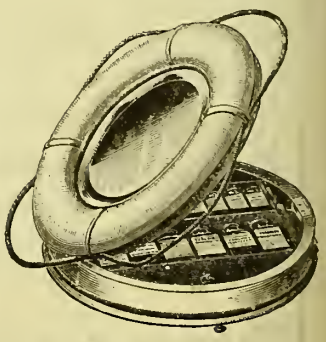
Snow Hill Buildings, LONDON,
and 10s, Pitt Street, Sydney, N.S.W.



B. W. & Co. Lifebuoy 'Tabloid' Medicine Case. Fitted complete, 34s.

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B 51

KEPLER SOLUTION

AND ITS COMBINATIONS.

MOLECULAR incorporation of the finest Norwegian Cod Liver Oil in Kepler Malt Extract is the principle upon which Kepler Solution is based. The intimate association of the oil with another food of tried efficacy as a digestive agent renders its absorption easy to the weakest digestive system.

When emulsification is resorted to this is not the case. The gums and alkalies, or the pungent flavouring agents used may serve to trick the palate, but the assimilation of the oil is rendered more difficult, as proved by characteristic eructations and other disagreeable sequelæ. Kepler Solution tastes like sweet cream, and is acceptable to the most fastidious.

Kepler Solution contains the most valuable fatty food in the most assimilable form, and for this reason it has received the cordial endorsement of the medical profession. The *British Medical Journal* reports:—"The taste of the oil is agreeably disguised; its nutritive qualities are greatly increased, and it is rendered easy of digestion."

Kepler Solution of Cod Liver Oil in Malt Extract is supplied plain or in combination as follows:—

KEPLER SOLUTION.—Small and large bottles 20s. and 36s. per dozen.

KEPLER SOLUTION WITH HYPOPHOSPHITES.—Each fluid ounce contains calcium hypophosphite, gr. 4; potassium hypophosphite, gr. 2; and sodium hypophosphite, gr. 2. Small and large bottles, 24s. and 45s. per dozen.

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Burroughs, Wellcome & Co.,
LONDON and SYDNEY.

The Trade is notified that "Vaseline" is an arbitrarily coined fancy word, and is registered as our Trade Mark, and can only be legally applied to goods manufactured by us.

CHESEBROUGH MANUFACTURING CO., 42 HOLBORN VIADUCT, LONDON, E.C.

See page 103 *of "THE CHEMIST AND DRUGGIST" WINTER ISSUE.*

SEND FOR REDUCED PRICE LIST OF THE "VASELINE" PREPARATIONS.

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"No man who has the faintest aspiration to be in the van of pharmaceutical progress can afford to ignore the claims this exact and comprehensive epitome of pharmaceutical information has to a place at his elbow."—*Chemist and Druggist*, March 24, 1894.

"As representing the actual condition of pharmaceutical practice in the United Kingdom, the work has, however, long since far out-grown the latest edition of the Pharmacopœia, to which it was originally intended to serve as a companion, and, as containing a store of valuable information, it may now be regarded as in many respects anticipating the next issue of that authority. Few statements as to which any doubt existed have been adopted without careful examination."—*Pharmaceutical Journal*, June 16, 1894.

"It is considerably ahead of the average text-books, and affords a valuable standard of reference to those who are anxious to keep pace with pharmaceutical advances, the allusions relating in many instances to current literature bearing the date of the present year."—*Lancet*, March 24, 1894.

"The present edition has evidently been revised with the greatest care, of which evidences are to be found on almost every page. Altogether, the improvements are so great that many of those who already possess the work will find it worth while to have the new issue."—*Practitioner*, June, 1894.

"The contents extend far beyond the limits of the Pharmacopœia, as a very large number of unofficial drugs and preparations are considered with the same care and minuteness as the others."—*British Medical Journal*, June 16, 1894.

London: J. & A. CHURCHILL, 7 Great Marlborough Street, W.

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Established 1859.

Subscription: Fourpence a Week, Ten Shillings a Year. Summer and Winter Numbers, 1s. per Copy.

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he Chemist and Druggist is supplied regularly to every member of the llowing Societies:—

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Chemists' and Druggists' Society of Ireland.
South African Pharmaceutical Association.
Pharmaceutical Society of Natal.
Central Pharmaceutical Association of N.Z.
Otago Pharmaceutical Association.
Pharmaceutical Society of Queensland.
Pharmaceutical Society of South Australia.
Pharmaceutical Society of Tasmania.
Pharmaceutical Society of Western Australia.
Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland.

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A COLONIAL ISSUE.

The Chemist and Druggist has from its inception been losely identified with colonial trade, and no effort has been rudged in order to bring home-merchants and colonial-uyers together. We propose on April 17 to give adver-isers a special opportunity of addressing colonial and oreign buyers, as on that date the *C. & D.* will be sent to hemists and drug and chemical merchants in several housand cities and towns in South Africa, Ceylon, India, Straits Settlements, Australasia, China, Japan, West Indies, nd other colonial and foreign centres where trade can be lone in druggists' goods of all kinds. It is an excellent pportunity, and one which good business-men should not iss. It will be in addition to the usual weekly circulation f the *C. & D.* For particulars apply to the publisher.

Summary.

A new test for the purity of beta-naphthol is described on p. 421.

It will pay to look through the Novelty columns beginning on p. 439.

Forfarshire promises to provide the newest chemists' association (p. 414).

A child has been choked at Lincoln by swallowing the teat of a soother (p. 413).

An unregistered dentist has been fined at Edinburgh in respect to a door-plate (p. 428).

The Apothecaries' Hall, Dublin, has again secured the medicine-contract for troops in Ireland (p. 414).

The Irish Pharmaceutical Council last week arranged the details for the award of medals to licentiates (p. 419).

The names of the members of the Commission charged with the revision of the French Codex are mentioned on p. 415.

We comment on the details of Mr. Kearley's Bill for the amendment of the law relating to the adulteration of food and drugs on p. 430.

We now award the prizes in our Diary coupon competition—viz., one prize of five guineas, five of one guinea each, and 18 book prizes (p. 425).

The Kingston Magistrates refuse to renew the "off" wine-licence to Parkes' drug-stores, because they have not confined sales to medicated wines (p. 412).

The Chancellor of the Exchequer considers that employers should try to learn the private means of their employés before making the income-tax return (p. 439).

A. de Plank, the man charged with stealing syphons, and afterwards selling them to a North London chemist, has now been found, and has been committed to the Sessions (p. 412).

The conditions under which medicines are admitted into Japan, so far as their quality is concerned, are detailed in the article on p. 433, which shows remarkably careful inspection.

The annual dinners of the Chemists' Assistants' Associations of London and Edinburgh, of the Bristol Pharmaceutical Association, and of the Mineral-water Bottle Exchange are reported (p. 420).

A goodwill case came before the Judge at the Manchester Assizes, the question involved being whether a chemist's goodwill was worth one year's or three years' purchase (p. 428).

Mr. Martindale's remarks at Bloomsbury Square on Tuesday evening, regarding preservatives for medicines, were confined largely to extemporaneous pharmacy, but were useful nevertheless (p. 418).

Several Glasgow doctors' shop-assistants have been fined for selling poisons, and several cases were not proceeded with. The reports are interesting. A female shop-assistant in Blantyre has also been fined (pp. 427-8).

The partnership accounts between the late Mr. S. M. Burroughs and Mr. Henry S. Wellcome have again been before the Court, owing to the arbitrator's award not being quite in accordance with the agreement (p. 423).

We give on p. 432 a general summary of the Pharmaceutical Society's accounts since 1853, showing that the examinations have enriched the Society, and that the demand for an increased Minor examination fee is unwarranted.

The amalgamation of the Apollinaris and Johannis Water Companies, with a capital of 3,230,000*l.*, is now complete. It is also again rumoured that Messrs. Blondeau et Cie.'s business is to be converted into a limited company (p. 441).

Mr. John C. Umney has now examined, morphologically, histologically, and chemically, all the commercial fennels, and in a communication to the Pharmaceutical Society shows what kinds should only be used in pharmacy. The varying composition of the oils is notable (p. 417).

D—E

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Fires.

Damage to the extent of about 100*l.*, covered by insurance, was caused by a fire on Saturday last on the premises of Mr. Oliver, chemist and druggist, West Malling, Kent.

The premises of Messrs. E. Gould & Son, chemists, &c., 59 Moorgate Street, City, sustained damage from heat, smoke, &c., through an outbreak of fire at an adjoining building, on Friday morning of last week.

On Friday night, last week, a fire occurred on the premises of Mr. John Dale, chemist and druggist, 91 Sydney Road, Sheffield. It originated in a warehouse at the bottom of his garden, where a considerable quantity of paraffin, turpentine, &c., was stored, and damage to the extent of about 100*l.* (not covered by insurance) was done.

A small fire broke out on Friday night, last week, at the establishment of Mr. D. H. Oxen, chemist and druggist, Bridge Street, Newcastle-under-Lyne, through a match being thrown on a cellar floor where a quantity of turpentine had been spilled. It was put out by the fire-brigade before serious damage was done.

Chemists and Wine-licences.

Wine-licences are granted and renewed in Middlesex and Surrey during the first ten days in March. Licences have been granted to the following chemists:—Mr. J. W. Black, chemist and druggist, of 66 High Street, South Norwood; Mr. F. T. Saunders, chemist and druggist, of High Street, Sutton, Surrey.

At the Kingston-on-Thames annual licensing meeting, on Thursday, Mr. J. Murison, managing director of Parke's Drug-stores, applied for a renewal of the licence for the sale of medicated wines at their establishment in the Market Place, Kingston. The Mayor (Mr. A. W. Homersham) said that when the licence was granted last year it was on the understanding that it should be for the sale of medicated wines only; but it was patent to everybody living in the district that "wines" had been sold in the establishment, and, furthermore, that they were advertised in the windows. Mr. Murison: Invalid wines, sir. Alderman Gould: That's another evasion. Alderman Joseph Marsh: Invalid wines mean invalid port, invalid sherry and champagne, and, in fact, will cover everything. Mr. Murison said that last year the application was for invalid wines. Alderman Gould said invalid wines were never mentioned. The Mayor said that the Magistrates considered a breach of faith had been committed, and they had unanimously decided not to renew the licence. Mr. Murison said that he should appeal against the decision. The Mayor said he could do what he liked.

The Mid-Cheshire Salt-trade.

Messrs. Brunner, Mond & Co. have decided to purchase the Middlewich Works of the Cheshire Alkali and Salt Company. A special meeting of the shareholders of the last-named concern has been convened in order to effect the transfer. When the transaction is completed, Messrs. Bowman, Thompson & Co., of Lostock, will be Messrs. Brunner, Mond & Co.'s only competitors in the Mid-Cheshire salt district.

Holiday in the Chemical-trade.

The directors of Messrs. Joseph Crosfield & Sons (Limited), of the great soap and chemical works at Warrington, have decided to abandon their original system of giving their men so-called "perquisites" at various times of the year, and have decided to replace these by more substantial and more permanent benefits. Hitherto it has been the custom to distribute meat, clogs, and other gifts at Christmas; and in the summer the whole of the firm's employés have a day trip to the seaside, special trains and all arrangements for the occasion being made at the expense of the company. This is now to be done away with, and in the place of it an arrangement has been provided by which an annual holiday of a week's duration will be given to each man in the company's employ. The proposition has been enthusiastically accepted by the men. They are to have full pay for the week. The directors have also decided to give each man who has been in their employ for from eight to fifteen years a bonus of 5*s.*, and to those who have been in their employ over fifteen years a bonus of 10*s.*, in addition to their weekly pay. They are also arranging for the provision of breakfast and dining rooms at their works, and are considering a pension fund and an eight-hours' day. Messrs. Crosfield employ over a thousand hands.

The North London Syphon-case.

Albert de Plank (30), describing himself as a tailor, of Wickham Street, Hoxton, was charged on remand at North London Police Court, on Tuesday, with obtaining syphons by false pretences. The prisoner had been released on his own recognisances when first charged, but did not surrender. On Friday last, however, he was re-arrested.

Mr. C. V. Young prosecuted, and Mr. D. A Romain held a watching brief on behalf of Mr. Joseph James, chemist, of Barnsbury Street, to whom the prisoner said he had sold the syphons in question.

Mrs. Cuthbert, of 115 Englefield Road, Islington, said she had been in the habit of having syphons of mineral-waters from Mr. McGeorge, chemist, of 346 Essex Road. About the end of December she had some empty syphons belonging to Mr. McGeorge. The prisoner called at her house and said he had come from Mr. McGeorge for the syphons. She replied, "You are not Mr. McGeorge's man; I shall not let you have them." He said, "McGeorge has sent me." She still refused to part with the syphons, but prisoner said that Mr. McGeorge's boy had been taken ill. Then she allowed him to take away six syphons, which he placed in the ordinary compartment-basket and carried away, asking her if she had any more. She asked the prisoner to sign for the syphons, and he replied that it was not usual. He said he would bring a receipt, but he did not. She went within an hour and gave information to Mr. McGeorge. The prisoner said he had witnesses to prove that he was elsewhere a week after Christmas; but the witness said she identified the prisoner from amongst nine or ten other men. The prisoner now said he wished to plead not guilty, because he was not in the neighbourhood at the time, and did not have the syphons in question. In reply to the prisoner, Mrs. Cuthbert said the basket he carried would only hold half-a-dozen syphons. Then (he asked), what was the use of my asking for more, if I had nothing to carry them in?- Mr. William McGeorge, the chemist in question, was called, and denied any knowledge of the prisoner. The prisoner did not ask this witness any questions. Louisa Hill, cook, in the employ of Mr. Tuck, of Highbury New Park, said her employer had syphons of mineral waters from Mr. Bassett, chemist, of Green Lanes. On January 6 the prisoner called at the house and asked her for "bottles for the chemist." She said "Bottles?" and he said, "Yes; syphons." The housemaid remarked, "Very likely he comes from Bassett's"; and the prisoner replied, "Yes; I do come from Bassett's." He could hear the remark of the housemaid. The prisoner had with him a basket with twelve compartments. He was handed eight syphons, and took them away. She identified the prisoner from amongst a number of men at the police court. The prisoner asked her no questions. Mr. John Bassett, chemist, 162 Green Lanes, said he had no knowledge of the prisoner. The value of the syphons was 16*s.* Mr. Ernest Pettitt, a clerk in the C.A.M.W.A.L., said his firm supplied both Mr. McGeorge and Mr. Bassett with syphons. They did not authorise the prisoner to collect any syphons for them. When re-arrested, the prisoner told the officer he had kept away on account of his wife's bad health. He now repeated this excuse. The evidence of Mr. Wells Wood was repeated, and Detective Ward said the prisoner had stated that he sold twelve syphons to Mr. James.

Mr. D'Eyncourt gave the prisoner the statutory caution; but the latter said he had no questions to ask or statement to make. He was eommitted for trial at the North London Sessions.

Profit-sharing with Workpeople.

At the annual general meeting of the shareholders of Clarke, Nickolls & Coombs (Limited), confectioners, of Hackney Wick, held last week, Mr. George Mathison, the chairman, stated that since 1890 the company had virtually taken their employés into partnership, and paid them as bonuses 13,275*l.* They had thus done an act of justice to labour, which labour had requited. The bonus for 1896 was 2,762*l.* 10*s.*, equal to about 6 per cent. on the wages. In 1895 2,110*l.* 6*s.* 8*d.* of the bonus was distributed in cash to 989 employés and 652*l.* 3*s.* was placed to the credit of the provident fund. During the year 129*l.* 15*s.* 11*d.* had been paid from this fund to 76 employés in sick benefit, 20*l.* to representatives of employés who had died, and 85*l.* to 17 girls who had married. The superannuation fund now amounted to 2,528*l.* 6*s.* 3*d.* The company has paid an average 10 per cent. to its shareholders.

More Competition.

The following handbill is in circulation in Halifax this week:—"To-day! to-day! to-day! A chance of a lifetime. By arrangement with Messrs. Davies, Son & Sunderland, at their sale-room, 12 Crossley Street, Halifax, Messrs. Butterworth & Rushton, licensed auctioneers, qualified chemist (*sic*), and wholesale druggists, will sell by public auction the whole of the stock of the late Mr. Shuttleworth, chemist, druggist, and drysalter, on Monday to Saturday, March 8, 9, 10, 11, 12, and 13. The whole of the goods offered have been examined by an expert, and are guaranteed genuine, and will be sold without the slightest reserve. Sale to commence at 2.30 and 7 P.M. daily. The stock will consist of chest-protectors, enemas, carbonate of soda, health salts, honey, German metal-polish, relish, pepper, composition, varnishes, extract of malt and cod-liver oil, iron-tonic pills (Blaud), sewing-machine oil, borax, lavender-water, perfumes, quinine-wine, iron-and-quinine tonic, furniture-polish, camphorated oil, oil of almonds and syrup of violets, chemical-food, flowers of sulphur, tea, Epsom salts, paint-brushes, seidlitz-powders, jewel-mops, salad oil, gold-paint, sulphate of lime, cough-mixture, Spanish juice, sugar-candy, glycerine and cucumber, carbolic soap, kid-reviver, compound liquorice-powder, glycerine, vaseline, old brown Windsor soap, toilet-soap, extract of meat, starch-gloss, &c. Also they will offer medical, toilet, and commercial recipes, now first published, being the recipes obtained during twenty-five years' experience in the best businesses in the kingdom. Copyright and registered. Full particulars may be obtained from the auctioneers, Messrs. Butterworth & Rushton, chemist and wholesale druggists, 39 Todmorden Road, and Pentridge Mills, Burnley. Secure the bargains. Be in time. Private sales during the day."

In the Trap.

Mr. Kirby, chemist, Chipping Ongar, Essex, being unwell one day last week, asked Dr. Spurgin to go behind his counter to prepare a prescription. The doctor went, and fell through a trap-door which he did not notice. Dr. Spurgin severely sprained his ankle and sustained a shaking, which has incapacitated him from visiting his patients, and he has been obliged to engage a *locum tenens.*

Chemists at Football.

A match between the South London School of Pharmacy and the Westminster College was played on February 27 at Balham, and resulted in an easy victory for the S. L. by 7 goals to 2.—The South London School of Pharmacy played the Bloomsbury Square Students on March 6 at Wormholt Farm. Each side scored a goal in each half, the match thus resulting in a draw, 2 to 2.

A More Stringent Law Needed.

Mr. Whittingham, a Notts coroner, has expressed regret that the law is not more stringent in regard to the administration of narcotics to children. He held an inquest on March 5 at Hucknall Torkard, into the cause of the deaths of twin children aged 14 days, whose mother had obtained from the shop of Mr. J. D. Buckland, chemist, some Godfrey's cordial. On the bottle were instructions that a dose of from 5 to 10 drops were sufficient for a child from 1 to 3 months old. The mother seemed to have given them an overdose, and they died.

Killed by a Soothing-teat.

An inquest was held at Lincoln, on Tuesday, on a child four months old, the son of Mr. Tyers, assistant-superintendent of the Prudential Assurance Company. The child was taken out at 11.30 on the previous morning, and was brought home at 1.15, when it was discovered to be dead. It was given an indiarubber teat provided with the usual bone disc as a guard. The guard had slipped off the teat, the child had swallowed it, and was choked. The teat was not a new one, but had not been in use very long—possibly three months. Alice Evison, the nurse-girl, aged 14, gave evidence. She did not know the child was dead until she brought it home, and was about to lift it out. The child was laid in the perambulator opposite to witness, but she had neither seen nor heard it struggle. The Coroner said he had been to a chemist's to examine different kinds of soothing-teats, and he found the one the deceased had was not properly made. A piece of bone fitted into the centre of the disc, and that bone should be wider at the end which went into the child's mouth than at the other. If the disc then could only just be fitted on the thin end, it would be impossible for it to slip off into a baby's mouth. In the present case the disc was put on the wrong end, and could therefore come off just as easily as it was put on. A verdict of accidental death was returned.

Manchester District "Diamond Jubilee" Contribution. Second List of Donations.

	£	s.	d.		£	s.	d.
Bell, Joseph	0	10	6	Roberts, W. R.	1	1	0
Blain, Alfred L.	0	10	6	Robinson, Benjamin ..	2	2	0
Blyton & Astley	5	5	0	Scaife, S.	0	10	6
C. E. C. M...	0	10	6	Sutcliffe, C. H.	0	10	0
Cowpe, Mrs.	0	10	0	Wright & Barnaby ..	0	10	6
Howie, W. Lamond ..	10	10	0	Amount previously announced	43	1	0
Jeans, Alfred	0	10	0				
Jeans, Ed.	0	10	0				
Oldfield, Pattinson & Co.	5	5	0	Total to Wednesday night	£72	1	6
Rawsthorne, Regd. ..	0	5	0				

The Dangers of Infants' Foods.

Mr. Carttar held an inquest at Bermondsey on Tuesday on the infant son of parents named Lakeman. The mother said the deceased was about three months of age, and was by no means an ailing child. Shortly after its birth it refused to take food from the breast, and witness had fed it with Ridge's food up to the time of its death. On Wednesday last it was put to bed, and about 8 o'clock the next morning it was found dead in bed. Witness called her landlady, and afterwards sent for a doctor. In reply to the Coroner, who remarked that the child was extremely thin, she said it seemed to improve after leaving off the natural food. She also told the Coroner that she prepared Ridge's food in the usual manner, mixing it first with milk and then boiling it. She used nothing but milk to mix with the food; and she gave him no other nourishment than Ridge's food. The father of the deceased said it had always plenty to eat, and it seemed to be going on pretty well. Dr. F. O. Stokes, 17 Old Kent Road, said he had made a *post-mortem* examination of the body. Its weight was 4 lbs. 15½ oz. The average weight of a child of that age would be 14 lbs. In answer to the Coroner the doctor said he had heard how the mother prepared the food. It was not right to mix it with milk alone—water should have been added, as it was well known that milk alone should not be given to a child.

The Coroner: I have by me a copy of the directions given with the tins of food, and that copy says nothing as to the mixing of water with the milk in preparing the food. What do you say to that?

The Witness: I say certainly that water ought to be used. The death was due to consumptive bowels brought on by injudicious feeding. After a long deliberation the jury returned a verdict in accordance with Dr. Stokes's evidence.

Stealing from a Chemist's Counter.

William W. Marshall was committed for fourteen days at Doncaster, on Monday, for shoplifting. Defendant asked at

the shop of Messrs. Hatton & Merrick, chemists, for advice about his fingers, and when he left some packets of tobacco were missing. On the defendant the tobacco was found, and some chocolate and tea belonging to a local tea-merchant, whose shop he had also visited.

Carbolic-acid Poisoning.

At an inquest held at Stockton on Monday, before Mr. Coroner Dodds, on a girl, aged 20, who had committed suicide with carbolic acid,

Mr. Wm. Clarke, chemist, said the deceased came into his shop and bought a 6-oz. bottle of carbolic acid for 6*d*., saying she wanted it for disinfecting-purposes. He called her attention to the drug being a very poisonous one, and advised her to use the utmost care with regard to it, and she said she would. The drug was not scheduled as a poison under the Pharmacy Act, though representations had been made to have it included, as at present there was not the slightest restriction as to its sale.

The Coroner: It is a disgraceful state of affairs. I suppose it is a powerful poison?

Witness: Yes, sir. There are more accidents from that than any other poison we keep.

The Coroner: I shall make a communication to the Home Office with regard to this deplorable state of affairs.

Witness: There are six or seven cases of this sort every week.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

An Anti-pharmaceutical Female.

For maliciously destroying a number of fancy bottles in Messrs. Blair's pharmaceutical establishment, Patrick Street, Cork, and for disorderly conduct therein, a woman named Attridge has been fined 40*s*. and imprisoned for a month with hard labour.

A Good Name.

Messrs. Bewley & Draper, wholesale chemists and druggists, Mary Street, Dublin, are offering a reward of 50*l*. to anyone giving them such information as will lead to the prosecution of certain traders who are suspected of fraudulently using the name of the firm.

War Office Contract.

The Secretary of State for War has accepted the tender of the Governor and Company Apothecaries' Hall for medicines for the troops in Ireland. After holding this contract for a period of seventy years, the Hall some three years ago lost it, and have now regained it.

Move On.

It would seem that the Corkonians are not partial to botany. This, at least, is the experience of Frank Lillian, open-air "lecturer on botany," who poured out his tale of woe a day or two since into the ears of the magisterial Bench, that he had been ordered to "move on" by the police, and his horses "thumped" by the gentleman in blue, against whom he applied for a summons. The Bench expressed sympathy, but refused the application.

Irish Poor-law Contracts.

Tenders for a year's supply of drugs, medicines, surgical and medical appliances are invited by the following Poor-law Boards, viz.:—Athlone (March 13), Naas (March 26), Tullamore (March 9), Carrickmacross (March 16), Thomastown (March 25), Kilkeel (March 15), Cootehill (March 12), Granard (March 25), Londonderry (March 13), Lisnaskea (March 20), Glenamaddy (March 16), Swinford (March 16), Clogheen (March 9), Croom (March 18), Castlerea (March 25), Tulla (March 16), Bawnboy (March 15), Ballinasloe (March 17). Clifden (March 17), Sligo (March 16), Athy (March 24), Borrisokane (March 14), Downpatrick (March 20). These Unions have outlying districts attached, ranging in number from two to eight. In view of the recent article on poor-law drug-contracts, it will be interesting to watch how the above will be disposed of.

Irish Drug-contracts.

As an appendix to the article on this subject published a fortnight since we have received the following:—A doctor found the drugs supplied for his dispensary were adulterated. He complained of them; the charge was investigated by the Board of Guardians. The contractor indignantly repudiated the charge, which he said was due to spite on the doctor's part, with whom he had some unpleasant dealings of a private character, and he was quite satisfied to have any unopened packages of drugs analysed, but would not be responsible for any open ones, as they might have been tampered with by the doctor; and if on analysis they were not correct, he would pay the expenses, but if correct the doctor should pay them. The Board thought this a fair offer, and accepted it. Only two unopened packages were found in the dispensary at the time These, on being analysed, were found correct, so the doctor had to pay the expenses.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

The "Kinninmont" Prize.

The full conditions of this competition have been published. The prize will be a gold medal and books. The examination (a written one) will be held in Glasgow in May or June next. Assistants in Glasgow and the following counties—Argyle, Ayr, Bute, Dumbarton, Dumfries, Kirkcudbright, Lanark, Renfrew, and Wigtown—who have qualified during the two years previous to the examination will be eligible to compete. The subjects of examination will be botany (somewhat more extended than is required for the Minor), and magnetism and electricity. A full syllabus may be had from Mr. William L. Currie, Secretary, 223 Byre Road, Dowanhill, Glasgow.

D.F. & D.C. & D.A.

Another long title is proposed to be added to our Diary list of chemists' associations—viz., the "Dundee, Forfarshire, and District Chemists' and Druggists' Association." We do not wish them success in that proposal: "Forfarshire Chemists' Association" is long enough and good enough for the purpose. The objects are good, and are thus expressed by Mr. James Russell in a circular which he has issued to all the chemists in the country:—

There is work for a strong association to defend our business from unfair competition, and to consider all matters affecting the general interests of the business. We expect also that from such a combination a more fraternal feeling will be obtained than can be done by local organisations of single towns.

The proposal is to form an association somewhat after the lines of the Forfarshire Medical Association, the executive centre being Dundee, where monthly or quarterly meetings will be held, but having an annual meeting alternately in a different town of the district, combining business with the social element of an annual dinner. To meet secretarial expenses, an annual subscription for members is proposed, to be fixed at 2*s*. 6*d*.

Those who are in favour or otherwise should write to Mr. Russell, 111 Nethergate, Dundee. He is the Secretary of the Dundee Chemists' and Druggists' Association—a body which has existed for thirty years, but is founded on somewhat old-fashioned lines, so that, except when someone has

to be entertained, there is not that heartiness within it which there might be. The present venture will bring chemists of Arbroath, Forfar, "Thrums," Montrose, Dundee, and at least ten other towns together, and, once together, it should require no wizard's wand to bring good out of the gatherings.

A Chemists' Golf Club

The golfers in the Pharmacy Athletic Club have decided to separate themselves from their fellows in other branches of sport, and have formed a distinct club of their own under the title of "The Edinburgh District Chemists' Golf Club." The officers were chosen and the rules drawn up at a meeting held on March 4 at the Pharmaceutical Society's house. All golfers connected with pharmacy are eligible for membership. Subscriptions are 10*s.* 6*d.* for honorary, 7*s.* 6*d.* for ordinary, and 2*s.* 6*d.* for apprentice members. The officers are:—Mr. Adam Gibson, Honorary President; Mr. George Lunan, Captain; Mr. H. D. Alexander, Vice-Captain; Mr. James Stott, Secretary; Mr. John Greig, Assistant-Secretary; Mr. W. B. Cowie, Treasurer; with Messrs. Baker, Dey, Laing, Lyon, Paterson, G. Robertson, and Stewart as a committee.

French News.

(*From our Paris Correspondent.*)

The Sale of Rights by auction of a share in a pharmaceutical speciality is perhaps not absolutely novel, but it is at least rare. Such a sale is announced for March 5 in the offices of Maître Olagnier, notary, 27 Boulevard des Italiens, Paris. The speciality a share in which is offered is Dr. Leras' pyrophosphate of iron and soda, prepared at MM. Rigaud & Clermont's pharmacy, Paris. The upset price asked is 15,000f. (600*l.*). No estimate of income is given.

The University of Paris.—At a council-meeting held last Monday, a letter was read from the professors of Princeton University thanking their Paris colleagues for sending so eminent a chemist as M. Moissan to represent them at the recent fêtes. The letter was accompanied by a medal to commemorate the event. M. Gréard, the Vice-Rector, mentioned that he had received the statutes of the Association of French Pharmaceutical Students, which he referred to as a society formed to establish "moral solidarity and friendship amongst its members." He also stated that the University had contracted for the supply of electric light to the principal faculties, as well as, eventually, to the School of Pharmacy. This news will be welcome to the students who use the libraries at night.

A Terrible Error cost Dr. Charles Contejean, a young chemist, his life a few days ago. Death was due to his taking, by mistake, a dose of corrosive sublimate instead of bicarbonate of soda. The deceased was only 32 years of age, and was looked upon as a promising *savant* at the Pasteur Institute and the Museum of Natural History at Paris, with both of which he was connected. He was educated at Pontarlier, and took his degree of Doctor of Medicine at Paris. During the past few years he has made various communications to the Academy of Medicine, which were favourably received. This sad death recalls that of Dr. Loye, who died a few years ago from slow poisoning, due to an infectious subcutaneous injection. He was also an old pupil of the Pontarlier College.

New Edition of the Codex.—An announcement i made by the French Minister of Public Instruction that a special Commission has been formed to prepare a new edition of the Pharmaceutical Codex. The President of this Commission will be a layman, in the person of M. Liard, Director of Higher Education; the Vice-Presidents, M. Planchon, Director of the Paris School of Pharmacy, and Dr. Brouardel, *doyen* of the Paris Faculty of Medicine. Amongst the other members are MM. Bourquelot, Jungfleisch, Moissan, Prunier, Vigier, and Yvon, all well-known names in French pharmacy. The remaining members of the Commission are MM. Adam, Professor at the Alfort Veterinary School; Marty, Professor-inspector of the Health-service of the Army; Dr. Roux, Assistant-director of the Pasteur Institute; MM. Landouzy, Ponchet, and Gilbert, of the Faculty of Medicine. The Secretary, M. Génerès, is attached to the same department as the President.

Some Provincial Notes.—During a recent tour I visited Grenoble, and noticed that the professors of the University there seemed to be doing a good deal in the interest of the public. At present they are giving popular magic-lantern lectures every Friday evening in the Town Hall. The course included Dr. Bordier, director of the local School of Medicine and Pharmacy, on "International Hygiene and the Plague"; M. Baboin, the professor of materia medica and pharmacy, on "Mushrooms"; and M. Labatot, who teaches chemistry and toxicology at the school, on "The Waters of the District." In the same prosperous town the professors of the Faculty of Sciences are holding evening classes on such subjects as the "X and Cathodic Rays" and "Chemistry as Applied to Lighting Purposes." The meetings and classes are held at about 8 P.M., and although evening lectures, &c., are common enough throughout France, probably few towns offer such facilities to the working population to acquire or improve their scientific knowledge.—At Cannes a pharmacist told me that seldom has such an influx of visitors been seen on the Riviera as this season, adding, "The plague scare has probably kept people away from Egypt, now our most formidable rival, and as we had fine weather nearly all last year the villa people came early. We had a spell of rain two or three months ago, but since then 'le ciel nous favorise' and the hotels are now quite full all along the littoral from here to Genoa." This was Carnival week, and the last assertion I can practically vouch for, as when the Carnival excursion trains arrived from Paris last Thursday at Nice the hotels were already so full that people were being accommodated with shake-downs in the drawing and dining rooms. I went to Monaco myself and found a room, but, judging from the smart crowd at the Casino, Monte Carlo is as full as Nice. At Cannes the English of course predominate (they have a golf club there now as well as at Hyères), but a good number of French people have come this year, also Russians and Americans. At Nice one hears every language in Europe. Mentone reports, "All full up." Here English and Russians predominate, while one hears German a little everywhere. I could not find any qualified English chemist in business for himself at Cannes. M. Ginner, of Cannes, who, I believe, was a member of the Pharmaceutical Society, and was appointed chemist to the Queen when she was at Grasse in 1891, died a couple of years ago, at a comparatively early age. The pharmacy, which seems to be the most English one in Cannes still (though, of course, every self-respecting pharmacist puts up some British inscription on his shop-front), has now as proprietor a M. Ricardo, who used to be in Messrs. Roberts & Co.'s Bond Street pharmacy, and who is a Paris pharmacien de 1ere Classe, like most of the principal Cannes pharmacists. Many of the chemists have English Minor men as assistants, Although most Cannes shops, except such as pastrycooks' wine-shops, and similar trades, shut on Sundays, all the pharmacists are open all day, but with a reduced staff as a rule. This, I understand, has been the case up to the present, even in the slack summer season, but a movement is on foot for partial Sunday closing during the coming summer. "Flies are our only visitors during the summer Sunday afternoons," I was told.—During a short stay at Lyons on my way back to Paris, I noticed that a Sunday-closing crusade had evidently taken place. Bills announced "Closed on Sundays, support Sunday rest," on shop-fronts, and one pharmacy bore the very exceptional notice "Shut all day on Sundays." This was a first-class establishment on the rue de la République, the main street which runs by the Bourse, and where Carnot was assassinated.

Colonial and Foreign News

Libel Action against an American Drug Paper.—The holders of the American phenacetin patents have brought a libel action against the *Rocky Mountain Druggist* Publishing Company, of Denver, Colorado. They claim $10,000 damages for certain articles which appeared in the *Rocky Mountain Druggist* last autumn. In these articles pharmacists were advised not to buy phenacetin from the

authorised consignees, on the ground that that firm sell it in Canada at 25c. per oz., but charge $1 per oz. in the United States.

A New American Drug Firm.—The Greer Drug Company, which succeeds to the business of Dowie & Moise, of Charleston, South Carolina, has been incorporated with a capital of $100,000. The president is Mr. Thomas R. McGahan, and the secretary Mr. Samuel Wiley.

Bacteriological Institutes in Russia.—The Bacteriological Research Laboratory at Charkov, Russia, inoculated over 200,000 animals in the course of last year. Of this number, 170,000 were sheep, the remainder horned cattle, horses, and pigs. The laboratory has been found so useful that it has been decided to establish a similar institution in Western Siberia in the course of this year.

American Perfumery in India.—A wholesale drug-firm at Baltimore has lately commenced a profitable export business in perfumery to India. The firm now think that the American Government should come to the assistance of manufacturers of perfumery by a concession of relief from the internal revenue tax on alcohol. This matter will be discussed at the next meeting of the Perfumery Manufacturers' Association in New York.

Horsewhipping a Chemist.—A Durban chemist was *sjamboked* (horsewhipped) on January 30 at Verulam, Natal, by a brother-in-law from Johannesburg. The latter gave himself up, was released on 5*l.* bail, and cleared off for the Rand. For the cause: *Cherchez la femme.* The chemist's wife and her sister were staying at Verulam Beach, and something happened which sent the sister back to Johannesburg in a hurry. The sister's husband then came down to Verulam with his *sjambok.*

End of the Madras "Cream of Malt" Case.—The High Court of Justice of Madras has quashed the judgment of the lower Court by which Mr. W. McMorris, an assistant in the firm of W. E. Smith & Co., chemists and druggists, of Madras, was sentenced to a fine of 200r. for having "cheated" by substituting a bottle of Kepler's malt and oil for one of "cream of malt and cod-liver oil" which had been ordered. The Court held that there was no evidence of cheating or attempting to cheat, and ordered the conviction to be set aside and the fine refunded.

Chemical Prizes by the Belgian Government.—The Belgian Government offer several prizes, ranging in value up to 20,000f., for the best solutions of questions of industrial and scientific interest. The questions relating to chemistry are the following:—(1) The determination of the constitution of camphor by means of analytical and synthetical reactions, and the differentiation of the optic isomers with the aid of chemical reactions. (2) A practical method for the cheap conversion of atmospheric nitrogen into NH_3. (3) A practical method for the preparation of chlorine from calcium chloride at a less cost than that now in use. (4) A new process better than the methods now known for dyeing various textile yarns. (5). A simpler method for the preparation of HI. (6) Improvements in fractional distillation. Full details concerning these questions may be had upon application to the General Commissary of the Belgian Government, 17 Rue de la Presse, Brussels.

Political Drug-inspectors.—Since the election of Mr. McKinley several San Francisco druggists have made application for the appointment of drug-inspector in the Custom-house at that port. The position is claimed to be the best in the department. The hours are only two or three a day, with a salary of $1,600 per annum. It is generally thought that a competitive examination, "to be confined to those who are known Republican workers," would be the best way of settling the conflicting claims. Mr. Julian Waller, of Waller Brothers, wholesale druggists, is circulating a petition among the retailers in San Francisco soliciting their support for his appointment. But as that gentleman at the last elections worked hard for his brother Sam, who is a strong Bryanite and silver Democrat, the Republican pharmaceutical office-seekers think that Mr. Julian should remember the old battle-cry which prevails all over the States, that the spoils belong to the victors.

German Chemical Trade.—The German trade returns for 1896 show that although the gross weight of chemicals and other articles for use in chemistry and pharmacy imported from abroad exceeds considerably the weight of similar articles exported from Germany, the opposite is the case with regard to the value of the goods. This is apparent from the following figures relating to the imports and exports of drugs, pharmaceutical goods, and dye-stuffs:—

—	1896		1895	
	Tons	Value	Tons	Value
Imports ..	1,021,537	243,810,000m.	1,001,905	232,913,000m.
Exports ..	642,425	318,414,000m.	609,983	289,809,000m.

The imports show an increase of 1·9 per cent. in weight and 4·6 per cent. in value; the exports an increase of 5·3 per cent. in weight and 6·5 per cent. in value.

Fighting the Plague in India.—At the Viceregal Council held in Calcutta on February 4 the Dangerous Epidemic Disease Bill was passed. The Act gives wide discretionary powers to local authorities, and on that account has aroused a good deal of opposition in certain native circles. Under the provisions of the Act orders are to be issued at once to all maritime Governments giving them power to detain vessels if necessary, and to all local Governments to examine passengers by rail. All travellers will be obliged to leave the train at such special points as the Government might determine upon, and undergo examination. European medical officers would be appointed for duty, and camps and hospitals will be formed at all necessary spots. Surgeon-General Cleghorn has been deputed to attend the Conference of the Powers. He is of opinion that the plague is largely due to local conditions, and that it is not strictly infectious or contagious. The Act provides that "when at any time the Governor-General is satisfied that India, or any part thereof, is visited by or threatened with an outbreak of dangerous epidemic disease, and thinks that the ordinary provisions of the law in force for the time being are insufficient for the purpose, he may by public notice prescribe such regulations as he shall deem necessary to prevent an outbreak of such disease, or spread thereof, and may determine in what manner and by whom any expenses incurred (including compensation, if any) shall be defrayed, no suit or other legal proceeding to lie against any person for anything done, or in good faith intended to be done, under the Act."

Framing the New American Tariff Bill.—The Ways and Means Committee of the American Congress have fixed the proposed Customs duty on coal-tar colours or dyes "by whatever name known and not specially provided for" to 35 per cent. *ad val.*, though a strong faction in the committee opposed this high rate. On collodion compounds rates of duty will be provided ranging from 30c. to 40c. per lb., with an addition of about 25 per cent. *ad val.* These rates, however, are still subject to revision. The committee has had several discussions on barks, beans, berries, &c., but has not yet been able to fix on a rate of duty. Sulphuric ethers will probably be fixed at 25c. per lb.; spirit of nitrous ether at the same rate; fruit ethers, oils, or essences will be taxed $2 per lb., and ethers not specially provided for $1 per lb. An important change in aqueous extract of opium has been made by putting the rate up from 20 per cent. to 30 per cent. *ad val.* The present rate of $6 per lb. on smoking-opium will be maintained, as the committee believes that figure to be the limit of the revenue-producing power of that article. Peppermint oil has been changed from the present *ad val.* rate to 25c. per lb., while seal, herring and other fish oils have been restored to the McKinley rate of 8c. per gallon. Bicarbonate of soda has been advanced to ⅜c. per lb., and bichromate has been changed from an *ad val.* rate to 3c. per lb., with a possibility that it may be reduced to 2c. Soda crystals have been raised to ¼c. per lb.

Disease of Nutmeg-trees.—The Dutch-Indian Government have under consideration the advisability of sending Dr. J. M. Janse, of the Java Botanic Gardens, to Menado and the Banda Islands to inquire into the disease that is affecting the nutmeg-trees, and into one which appears to be threatening the cocoa-plantations.

Pharmaceutical Society of Great Britain.

On Tuesday evening the last of the evening meetings for the present session was held in the lecture-theatre, 17 Bloomsbury Square, W.C., Mr. Walter Hills, President, in the chair. The first paper read was on

The Commercial Varieties of Fennel and their Essential Oils,

By John C. Umney.

The author said that interest in the varieties of fennel fruit was first aroused by the arrival of a consignment of Japanese fennel, which was erroneously described in the drug-catalogues as "Japanese anise," and when he had examined the fruit and distilled an oil from it he communicated a paper on the subject to the Liverpool meeting of the British Pharmaceutical Conference (*C. & D.*, August 1, 1896, page 191). The various varieties of fennel fruit were then observed to differ so widely in physical characters and in the chemical constitution of their respective oils that the chief points of similarity and difference have since been compared, and the present paper was the result. Although fennel oil is not in the B.P., it is included in practically every other European Pharmacopœia, as well as in the U.S.P. The official descriptions of the fruit differ widely, the German Pharmacopœia describing them as 8 mm. long, the U.S.P. says 4 to 8, and the B.P. $\frac{1}{5}$ to $\frac{2}{5}$ inch. The last would include nearly all varieties, whereas the first practically applies to Saxon fruit only. The oil, however, is rarely distilled from these seeds in Germany, the lower-priced Galician or Southern Russian varieties being employed. The botanical source is generally considered to be *Fœniculum capillaceum*, except the Indian fruit, which is attributed to *F. panmorium*, which, however, is not looked upon as a true species; Sicilian fennel is referred to *F. piperitum*. The Japanese is the smallest and the Saxon by far the largest of the "seeds" met with in commerce, as shown in the following table:—

Variety	Average Length	Vittæ in Transverse Section		Ridges	General Character
		Average Length	Average Width		
	mm.	mm.	mm.		
French sweet	7 to 8	0·11	0·04 to 0·05	Very prominent	Cremocarps oblong cylindrical, frequently slightly arched; ridges at extremity of commissure very prominent
French bitter	4 to 5	0·18 to 0·2	0·07 to 0·08	Less prominent than sweet	Each mericarp flattened; radial section twice as long as broad; scurfy in the furrows
German ..	8 to 10	0·2 to 0·22	0·07 to 0·08	Very prominent	Vittæ in radial section duplicated and very large
Saxon and Russian	5 to 6	0·2	0·04 to 0·05	Rounded	Radial section angular, oblong; pericarp very thin
Galician ..	5 to 6	0·2 to 0·24	0·08 to 0·10	Prominent	The vittæ in radial section elliptical
Persian ..	6 to 7	0·15	0·05	Not prominent	Radial section shows a rectangular outline; pericarps thick
Indian ..	6 to 7	0·1	0·03 to 0·04	Rounded	Dark in colour, oblong in form; vittæ very small
Japanese ..	3 to 4	0·15 to 0·16	0·07 to 0·08	Rounded	Very small in size and dark colour; vittæ small

From each of these varieties the author distilled oil, and thoroughly examined them, the following being the results:—

Source	Percentage Yield of Oil	Odour and Taste	Optical Rotation 100 mm.	Melting-point after solidifying	Fenchone per Cent.	Specific Gravity at 15.5° C.
French Fennel, Sweet	2·1	Sweet Anise-like Fatty	16°	12·5° C.	None	0·976
Bitter	—	—	16·15°	11·7° C.	None	0·989
Persian ..	1·7	Sweet Anise-like	14°	11·2° C.	3·4	0·977
Indian ..	0·72	Sweet Anise-like	21°	8·2° C.	6·7	0·9[illegible]8
Japanese	2·7	Very sweet somewhat Camphoreous	15·5°	10° C.	10·2	0·975
Galician	4·8	Camphoreous	20°	6·2° C.	18·1	0·965
Russian	4·4	Camphoreous	23°	4·4° C.	18·2	0·967
Saxon ..	4·7	Sweet not Camphoreous	—	—	—	—
Pimpinella Anisum	—	Pure Sweet and Fatty	1°	15·5° C.	None	0·983

The last line is added for comparison.

The oils which are rich in fenchone are naturally more pungent and camphoraceous in odour than those which contain less of that ketone. It is evident that the Chinese recognise the similarity in flavour between fennel and star-anise, for, according to Ford and Crow, the designation of the star-anise fruit in the vernacular is "eight-cornered fennel." The Japanese fruit which first arrived in this country was probably, in the first instance, described as "aniseeds" rather from its small size than from its taste or odour. In this respect it is less anise-like than some other varieties of fennel, notably the French. The Russian, Roumanian, Galician, and Japanese are considered the most suitable for pharmaceutical use, since they yield the most oil. Fenchone is an important therapeutic ingredient by reason of its carminative properties. Indian fennel, from its extreme poverty in oil, is not suitable for such use in pharmacy.

Mr. Umney exhibited sections of the various fruits under the microscope, as well as fresh plants (*Fœniculum piperitum* from the La Martola Garden, Bologna fennel, and *F. vulgare*), and in the course of the paper photographs of the fruits and of the microscopic sections were thrown upon the lantern-screen. The results as recorded above, and the correlated evidence, sufficiently demonstrated that the previous conclusions arrived at by Mr. Umney are correct. Mr. Kirkby's suggestion that one or other of these is more closely allied to anise was not maintained, the photograph of Italian anise and the varieties of fennel showing the difference clearly. This was especially noticeable in the sectional views, which showed generally six oil vittæ in each mericarp of fennel, while anise has from twenty to thirty—in fact, the vittæ encircle anise-fruit like a necklace. The structure also differs otherwise. In concluding, Mr. Umney thanked Mr. Lucas for taking the photographs which had been exhibited, and his assistants, Messrs. J. O. Braithwaite and Swinton, for help in the investigation.

The President, in opening the discussion, asked what were the principal uses of fennel apart from compound liquorice-powder. He observed that Hanbury said it was also used for veterinary-purposes and in making cordials. It was highly important, he considered, that for making liquorice-powder they should use the best fennel, especially as there was so much variation. He asked any lady or gentleman present to comment upon the paper.

Mr. Charles Umney said if the ladies began to treat the subject it would be sweet fennel and its uses for culinary-purposes that they would speak about. As a wholesale druggist, he was glad to have this summary of facts about the matter which Mr. John Umney had given them. Wholesalers had been buying the very worst kind of fennel—the East Indian variety—by the ton, because they thought it particularly good. It seemed from the analytical figures that the Indian and Persian varieties—that is, those grown in hot climates—were distinct and not so good as those

grown in more northern climates. Speaking of the confusion with anise, he said that at the last drug-auctions there was a parcel of small fennel-seeds from the Black Sea district which was once catalogued as anise, and it looked like it. That was particularly the case with the Japanese seed. Having referred to the different characteristics of the oils obtained from the seeds, Mr. Umney said that fennel was sold by the ton, and as most of it in powder form was used for making compound liquorice-powder, the quantity of that medicine consumed must be reckoned by tons and tons. It was one of the most popular medicines of the past thirty-five years.

Mr. E. M. Holmes said it seemed clear from the results that the Saxon, Russian, and Galician fennels contained most anethol, and so were the fittest for use in medicine. Commenting upon the botanical aspects of the subject, he pointed out that the fresh specimens on the table showed a difference in the leaf, and the Japanese kind was more like *Fœniculum piperitum* than *F. vulgare*. It is a fact that the latter plant as it grows wild near the seaside differs from the plant grown in gardens, the leaf being larger and more succulent. Botanists would not recognise this difference, although horticulturists do, and he thought that botanists must come to the latter way of thinking. He then referred to the microscopic structure of the seeds, pointing out that the Japanese have several rows of vittæ, the French and Saxon two rows, and the others only one. That seemed to show that there were two distinct species, of which the Saxon is a hybrid. This was a point worth following out. Japanese fennel seemed to occupy a position intermediate between anise and fennel; it had the taste of anise owing to the large amount of anethol in the oil.

Mr. Martindale remarked on the superiority of anise and fennel waters as carminative waters for children; they are sweeter and less pungent than other aromatic waters used for the same purpose.

Mr. J. O. Braithwaite commented upon the fresh Japanese plants exhibited, which were grown in his own garden. He had observed that the leaf of the seedlings was more like the leaf of the carrot, and had little of the delicate filiform appearance of the sweet fennel about it; indeed, the plants in the larval state were as different as the grub is from the caterpillar. (Laughter.) When the plants flowered in June they would have an opportunity of seeing how the flowers compared with those of sweet fennel. Mr. Braithwaite also spoke about the microscopic structure of the seeds and the external differences, and concluded by saying that the whole paper showed what interesting subjects could be picked up on the London drug-markets, and remarked that his chief (Mr. Charles Umney) had not forgotten his materia medica, although they now called it pharmacognosy.

Mr. Lucas thought it rather a pity that the poor quality of the Indian seed should compel them to exclude it from the Pharmacopœia.

Professor Greenish then commented upon the histology of the subject, and explained that although there appeared to be several rows of secreting cells round the vitæ in the young state, only one row is necessary, as the oil is secreted at the side of the cell next to the vitta.

Dr. Attfield having promised that the Pharmacopœia revisers would pay due attention to the paper, Mr. J. C. Umney replied, and, on the motion of the President, the meeting thanked him for the paper.

"That veteran in pharmacy, Mr. William Martindale," was called upon by the President to read a paper on

The Preservation of Pharmacopœial Preparations.

Mr. Martindale said these were purely pharmaceutical, not bacteriological, notes. We give his points as concisely as we possibly can, and may mention that the interest of them was much enhanced by numerous specimens which Mr. Martindale produced as each note was read.

Distilled Water, as frequently met with, is more imperfect than any other pharmacopœial vehicle; it is often worse than spring water, and an eminent bacteriologist once said that the distilled water of a certain manufacturer was the best cultivating medium he could get. (Laughter.) Mr. Martindale's advice was to distil the water often—daily, if necessary. It should be fresh—in fact, all B.P. preparations should be as freshly prepared as possible. In practice we cannot always have that—*e.g.*, customers insist that pills must be well preserved and look well, although we know that these conditions make them insoluble. (Laughter.)

Alcohol in the proportion of 20 per cent. inhibits the development of germs, and is one of the most common preservatives. It is not germicidal, indeed, there are few admissible preservatives which are so.

Glycerine.—Some who on principle object to the use of alcohol in medicines permit glycerine, although it is an alcohol also. Its use instead of S.V.R. has not met with general acceptance, and rightly so. Five per cent. added to lotio nigra keeps it black much longer, and keeps the black oxide in suspension, but 10 per cent. of tragacanth mucilage is just as good—in fact, better. To those who read this we say, Try it; the result is remarkable. Glycerine has also been suggested for making solution of mercuric chloride, but some slight reduction to calomel takes place, as also in the Codex alcoholic solution.

Acetic Acid was not approved of as a preservative, in spite of Professor Remington's recommendation.

Mercuric Chloride Solutions brought some special comments from the author. He condemned the use of ammonium chloride as wholly unnecessary and prejudicial. Hospitals must make bichloride solutions with tap water, and with ammonium chloride there is a precipitate of sal alembroth; without it the solution, even in very hard water, remains clear. Sodium chloride is just as bad. The curious effect of using weak aq. calcis in making lotio flava was exhibited. The lotion is yellow when the water is full strength, brown with half strength. In the latter case an oxychloride is formed, said Mr. Martindale.

Sugar.—The uses of this as a preservative were spoken of, but no new facts were mentioned.

Salicylic Acid is good for some hypodermic injections—a half per mille keeps cocaine solution free from fungoid growth, also atropine solution and tartrate of morphine solution (1 in 12 or 1 in 6). The last is better than the acetate, and he hinted that it should be officially recognised. The green coloration of apomorphine solutions (supposed to be due to absorption of ammonia, but not solely that in Mr. Martindale's opinion) is obviated by the addition of a minim of dilute hydrochloric acid to the drachm. Sulphurous acid also keeps it, but its use is not desirable. This acid is used for preserving orange wine.

Boric Acid is not much good as a pharmaceutical preservative. Added to apomorphine solutions a jelly is formed.

Camphor is too weak and irritating, as well as volatile, the last objection also applying to chloroform, although it is of great service. Nor is chloral hydrate of much use, nor phenol, except for ergotin solutions, the objections being their physiological action when added in sufficient quantity to preserve the things. Samples of ergotin solution were shown. *A* became fungoid in forty-eight hours, *B* with 1 per cent. of phenol remained clear for five days, *C* with 2 per cent. of boric acid developed fungi in seventy-two hours. Spores of *Penicillium glaucum* were deliberately sown on these solutions.

Speaking of other preservatives, Mr. Martindale said creosote is not admissible on account of its odour; formaldehyde the same, because its combination with gelatine may interfere with digestion; and the addition of hypophosphorous acid to syr. ferri iod. is a venial offence.

Liq. arsenicalis should be made without alkali or acid; the solution so made keeps just as well, and is compatible with alkaloidal and other mixtures. Finally, Mr. Martindale pointed to the changes in colour which take place in ointments of alkaloids made with benzoated lard, stating that this objection does not follow with pure lard, and the ointments are on the whole better.

Mr. Joseph Ince spoke, and Mr. Sage, in the course of some interesting remarks, said that acetic acid is good for making extracts, but for liquid preparations it is objectionable. He has observed that acetum scillæ becomes jelly-like through the action of *Bacillus xylinus* producing cellulose. This can be prevented by heating the vinegar to 150° F. He defended the use of formaldehyde as a preservative, saying that there is a great future for it, and Mr.

Martindale's objection does not apply, because dilute solutions do not act on gelatine.

The meeting then adjourned.

Pharmaceutical Society of Ireland.

THE monthly meeting of the Council was held on March 3. Present: Mr. W. F. Wells, jun. (President), Mr. Downes (Vice-President), Professor Tichborne, Messrs. Grindley, Beggs, Hayes, Conyngham, Bernard, Whitla (Monaghan), and Dr. James N. Walsh.

New Councillor.

The President, on the part of the Council, welcomed Dr. J. N. Walsh on the occasion of that gentleman taking his seat for the first time in the Council.

Irish Pharmacists May Apply.

A letter was received from the Lords Commissioners of the Admiralty stating that it had been decided, subject to the authority of her Majesty in Council, that licentiates of the Irish Pharmaceutical Society shall be eligible as dispensers in the Royal Naval Hospitals.

The President said a decision in this matter was arrived at two years ago, but the Admiralty seemed to have overlooked it. A recent letter of the Registrar had elicited the reply now received; and he (the President) trusted that the decision would soon be acted on.

The Society Scores on the Contract System.

A letter from the Local Government Board, dated February 13, intimated that Mrs. Greer had, with the consent of the Board, withdrawn from her contract for the supply of medicines to the Granard Union.

The President said it was a great advantage to the Society, after all their correspondence with the Local Government Board, to have gained this point. The Board had rescinded a contract which had been given to a person not qualified to sell drugs. The objection of the Council to contracts for the supply of medicines being given to such persons was that they were not qualified to sell poisons; and if the Local Government Board had sanctioned such contracts they would have been simply lending themselves to an evasion of the Pharmacy Act. He hoped they would have no more of such contracts.

Australia Sends Gifts.

A letter from the Publisher of *The Chemist and Druggist of Australasia* intimated that he would supply the Society with a copy of that journal monthly.

The President said he was sure the journal in question would prove both interesting and useful to them.

On the motion of the Vice-President, seconded by Mr. Grindley, thanks were voted to the publisher of *The Chemist and Druggist of Australasia.*

Donations were received from the Pharmacy Board of Victoria of a copy of their *Pharmaceutical Register* for 1896, and from the American Pharmaceutical Association of a copy of their *Proceedings*, 1896.

On the motion of Mr. Beggs, seconded by Professor Tichborne, thanks were voted to the donors.

Medals for Candidates.

A report was read from a special committee to whom had been referred the question of offering medals to the candidates who obtained the highest marks at the four examinations for the licence held during the year, and also a letter from the Pharmaceutical Chemists' Assistants' Association offering to give medals for presentation at the Society's examination.

The President said the committee went very fully into the matter, their three examiners being present, and their conclusions were: That a gold medal should be given to the best candidate, provided that his marks were not fewer than 240 out of a possible 300, and 65 in each of the three subject divisions; also that a silver medal should be given to the second best candidate, the minima of marks for obtaining which should be 230 out of the possible 300, and 60 in each of the subject divisions. The Pharmaceutical Chemists' Assistants' Association had offered to give two other medals. The committee did not think it desirable to give four medals, but were in favour of a book prize for the third best candidate, the minima of marks for obtaining which should be 200 out of the possible 300, and 55 in each of the subject divisions. After the committee had decided upon these marks they went over the examinations for the last four years from January 1893, in order to see what the answering had been, and they found that in the first two of those years there would have been candidates to take gold medals on the standard of answering upon which they had fixed if the medals had been then given. Last year no gold medal would have been won, but a candidate would have taken a silver medal, his total answering having been 232. The answering of the best candidate during the three years was 262, and he got over 80 in each of the divisions. During the first two years six of the candidates answered up to the gold-medal standard.

Mr. Bernard: Supposing that two of the candidates reach the maximum, what is to be done?

Mr. Conyngham: Give two gold medals.

The President: It is hardly likely that such a thing will occur. The gentleman who got 262 was a candidate in April 1894, and his marks in the divisions were 83, 90, and 89.

Mr. Bernard: Am I in order in moving that the medals be given this year?

The President: Our recommendation is that they should. They could be presented at the meeting of the Society in October. We think the year should end in July.

Mr. Beggs said he did not think they should accept any prizes from the Pharmaceutical Chemists' Assistants' Association to be given in the name of the Society. It would not add to the prestige of the Society, which was perfectly well able to give its own prizes. If that Association wished to give prizes they could do so to their own members.

The President: Suppose one of our past Presidents offered a gold medal, would we not accept it?

Mr. Beggs: Such an offer would not be on the same footing at all.

Mr. Hayes said he entirely disagreed with the Treasurer. They ought to accept with a good grace any prize that was offered through the Council.

Mr. Beggs: Do the Association propose to give the prize through the Council?

The President: One of their members told us that they would give it in any way that we suggested.

Mr. Whitla: Would it bear on the face of it that it was the prize of the Association?

Mr. Hayes: It would be their prize, but presented through the Council.

The Vice-President said he was opposed to the idea of accepting medals from the Association. It would be better for the latter to give a separate prize—unconnected with the Society's examinations—amongst their own members for the promotion of independent research and the best work done in the year by members of the Association; and it could be presented at the same time with the Society's medals.

Mr. Bernard also supported this view.

Dr. Walsh said the spirit which actuated the Pharmaceutical Chemists' Assistants' Association in making their offer was a feeling of gratitude to the Society for allowing them the use of their rooms. The Council ought to show them that they appreciated their gratitude.

The President said it should be borne in mind that the Council could only apply to the purpose of these medals the proceeds of their school, which this year only amounted to 21*l.* Not a penny of the Society's own funds could be applied to the purpose.

Mr. Bernard: How long is it since this matter was first mooted?

The President: About eighteen months ago.

Mr. Bernard: I think you should not let want of money interfere with it. If you are short of money, come to your members.

The President remarked that about seven years ago money was wanted for prosecutions, and an appeal was made to members of the Society, and with great difficulty 20*l.* was obtained, of which 5*l.* came from one contributor.

After some discussion as to the expediency of giving books with the silver medal,

The part of the committee's report which related to the establishment of a gold and a silver medal for the Society's licence examinations was adopted.

The Vice-President moved a resolution thanking the Pharmaceutical Chemists' Assistants' Association for their offer of a medal, and intimating that the Council fully appreciated the spirit in which it was made.

Mr. Grindley seconded the motion, which passed unanimously.

The Easter Examinations.

On the motion of the Vice-President, seconded by Mr. Grindley, it was ordered that the Easter examinations should be held on the Tuesday and two following days preceding Good Friday.

Marks in Pharmacy.

Mr. Bernard moved, pursuant to notice, that the system of marking in practical pharmacy at the licence examinations be revised, and that the examiner be consulted in that direction. He believed such a revision was absolutely required, and that their examiner would tell them so.

Mr. Conyngham seconded the motion, which passed *nem. con.*

New Members.

On the motion of the Vice-President, seconded by Mr. Grindley, Mr. John Hughes, of Limerick, was elected a member.

Mr. J. N. O'Neill, of Carrick-on-Suir, was nominated for membership.

British Pharmaceutical Conference.

A MEETING of the Executive Committee was held at 16 Bloomsbury Square, on Wednesday, March 3. Present: Dr. Symes (President), in the chair; Messrs. Atkins, Hills, and Martindale (Vice-Presidents); Mr. Moss (Hon. Treasurer); Messrs. Bird and Farr, Prof. Greenish, and Mr. J. C. Umney, and Messrs. Naylor and Ransom (Hon. General Secretaries).

Letters of regret for inability to be present were received from Messrs. Coull, Ewing, Foster, Wells, and Wright, and Mr. J. Anderson Russell (Honorary Local Secretary).

The minutes of the previous meeting were read and confirmed.

On the motion of the President, seconded by Mr. Atkins, the Secretary was requested to send to the widow of the late Mr. Schacht a letter of condolence and an expression of deep regret at his death and of the admiration in which her husband had been universally held by the officers and other members of the Executive of the British Pharmaceutical Conference.

A letter was read from Mr. D. Hooper, F.C.S., resigning his position as Colonial Secretary for the Presidency of Madras, in consequence of his departure from Ootacamund for Calcutta. Mr. Hooper was cordially thanked for his services, and upon his nomination Mr. W. E. Smith, of Madras, was elected as his successor.

The following gentlemen were appointed as a sub-committee to revise the Blue List previous to its distribution amongst members:—Professor Greenish, Messrs. Bird, Moss, Naylor, and J. C. Umney.

An application was received from the Liverpool Pharmaceutical Students' Association to be supplied annually with a copy of the *Year-book*. It was decided to grant the request.

A circular was read from an International Pharmaceutical Congress, to be held at Brussels in August, inviting the co-operation of the members of the British Pharmaceutical Conference. The President was requested to acknowledge its receipt, and to express the sympathy of the Executive with the objects of the proposed Congress.

Nine gentlemen, having been duly nominated, were elected to membership.

Festivities.

Chemists' Assistants' Association Dinner.

THE Chemists' Assistants' Association—of London, we ought to add, for the benefit of those outside this metropolis—has made a record. Last Thursday, March 4, they brought 280 guests to dine at the King's Hall, Holborn Restaurant. A goodly company it was, in quality as well as quantity, and it says much for the organising power of the young fellows, and their intimacy with social matters, that the function had all the style about it which one finds at the dinners of learned societies. Sir W. H. Broadbent, Bart., M.D., who is familiar with the domestic life of princes, was impressed by the gathering. He sat at the left hand of the Chairman (Mr. Charles Morley), the President of the Pharmaceutical Society (Mr. Walter Hills) sitting at the right—this arrangement in itself being a touch of originality and appropriateness which a more dignified body has never had the courage to try. Sir W. H. Broadbent's occasion to speak was given by Mr. C. E. Robinson in the toast of "The Medical Profession." Sir William's first words were of thanks to Mr. Robinson for "the admirable and impersonal manner" in which he proposed the toast. "I have a pride," continued Sir William, "in standing here as a representative of the medical profession, and as representing the sympathy which prevails between the medical profession and this branch of it. (Applause.) It is as an expression of the sympathy and mutual confidence between my profession and yours that I am here to-night. To me personally public dinners are things to be avoided, but it was only because I felt that it was a privilege and a duty that I should be associated with those who have such an important part in the cure of the sick, that I have broken through my custom. I have enjoyed my dinner, and have no fears of a headache to-morrow. (Laughter.) I have enjoyed the company of your Chairman and the gentleman on my left [Dr. John Attfield]. (Applause.) Sydney Herbert has said, 'Life would be tolerable but for its amusements'; and I would say, 'Life would be tolerable without public dinners.' But, gentlemen, I should have been sorry not to have been here to-night. We all here are connected with the mitigation of human suffering, and my experience of pharmacists is that in the cultivation of a conscientious discharge of the physician's directions no detail is too minute for them to carry out. I had no idea that such a spectacle as I see here to-night was to be seen in this country; I had no idea that the Chemists' Assistants' Association was doing such good work, and I thank you for the privilege of coming into closer touch with you, and of being one in this splendid gathering." It would be difficult to exaggerate the effect of this unaffected and sympathetic speech. It was Dr. Macnaughton-Jones's misfortune to speak at greater length, in effusive terms and flowery language, upon the same toast and after Sir William Broadbent. Mr. A. Ralph Melhuish then gave "The Pharmaceutical Society," saying that the Chemists' Assistants' Association support it, although they are good critics. Mr. Hills, in his reply, appealed for a larger representation of London on the Council, saying that it is difficult to get on with the work with the present small number. He also spoke of the extension of the Preliminary examination, and although he mentioned the Chemists' Assistants' Association as one of the earliest advocates of such extension, the reception given to the announcement was somewhat chilling. In the absence of Mr. John Harrison, the toast of "The Chemists' Assistants' Association" was proposed by Dr. Attfield, who deplored the envy and jealousy which permeate the drug-trade, and praised the Association for what it had done to promote *esprit de corps* as well as research. He also deplored the poor support that is given to the Pharmaceutical Society. The Chairman facetiously responded. The only other toast was "The Visitors," by Mr. W. Moore, Dr. Charles Symes replying. We have said nothing about the music, which was excellent, Messrs. Sydney Jamieson, Claude Brandon, and Ambrose Thomas contributing it; nor about the guests, who were representative of all classes of metropolitan pharmacy. On these occasions the conspicuous absentees are the ex-Presidents of the Association; but Mr. E. W. Hill was there as Chairman of a spur-table, and the other Chairmen were Messrs. Glode Guyer, C. E. Robinson,

W. Moore, C. J. Strother, Solomon (Allen & Hanburys), C. W. Martin (S. Maw, Son & Thompson), and A. R. Melhuish. During the evening a flash-light photograph was taken of the dinner-party.

Edinburgh Chemists', Assistants', and Apprentices' Association.

The annual supper of the Association was held in the Imperial Hotel, Edinburgh, on March 5. Mr. James McBain (President) occupied the chair, and Messrs. G. Sinclair (Vice-President) and J. D. Sinclair (Hon. Sec.) acted as croupiers. The company included Messrs. W. L. Currie (Vice-Chairman N.B. Branch), J. Bowman (President), D. Maclaren (Vice-President), and C. F. Henry (Secretary Edinburgh Chemists' Trade Association), George Lunan (Captain Edinburgh Chemists' Golf Club), G. Coull, W. Duncan, J. A. Forret, W. B. Cowie, J. Rutherford Hill, &c. The toast of "The Pharmaceutical Society of Great Britain" was proposed by Mr. G. Sinclair, who, referring to the proposed new by-laws, remarked that it was high time that all registered chemists who joined the Society should be admitted to a direct voice in the management of its affairs. Mr. W. L. Currie, who replied, expressed agreement with this view. Mr. Currie said he would make every man who passed the Minor examination eligible for a seat on the Council. Mr. J. A. Forret proposed "The Edinburgh Chemists', Assistants', and Apprentices' Association," which was acknowledged by the Chairman. The other local Associations were also toasted, and a number of songs and recitations were given in the course of the evening. On the suggestion of the Chairman, a collection was taken for the Benevolent Fund, amounting to 1*l.* 15*s.*

Now Dining.

The recently-formed North Staffordshire and District Chemists' Association are having a dinner at the North Stafford Hotel, Stoke-on-Trent, as we go to press this (Thursday) evening. Mr. W. Gowen Cross, of Shrewsbury, and Mr. J. Rymer Young, of Warrington, members of the Council of the Pharmaceutical Society, had accepted invitations to be present.

The London Bottle Exchange Banquet.

Truly are the metropolitan mineral-water manufacturers on the march of progress if the ever-increasing popularity of their banquets may be taken as a criterion. Ten years ago they dined together in a very humble way in celebration of an anniversary of the London Bottle Exchange; last week they entertained a large number of guests in princely fashion in the Hotel Cecil. Mr. E. S. Crick (Barrett's Bottling Company) was in the chair, and was surrounded by members of the trade from all parts of the United Kingdom and Channel Islands. The London mineral-water makers and heads of allied trades were also in good force, the diners numbering over 300. In proposing the toast of the evening, the Chairman congratulated the London society on four points of success: (1) financial, (2) commercial, (3) numerical, (4) moral; and then, with exhaustive figures, showed how the profits and assets of the society had increased; how the number of members had gone up by 45—making a total of 319—and how the commercial integrity everywhere shown had obviated any necessity last year for legal procedure, so that the society saved the 300*l.* or 400*l.* which they spent in law in 1895. The Chairman also gave astonishing figures as to the turnover of bottles, boxes, and syphons at the exchange: 500,732 dozen bottles, 41,826 boxes, 23,000 syphons, and 636 casks. Mr. Walter Davenport, the Secretary, replied to this toast, and gave more figures to prove that more than 100,000*l.* worth of property had been saved to the members of the society during the year owing to the existence of the Bottle Exchange. Mr. Durant proposed "The National Union," which had done valuable work for the trade by interviewing the authorities at Somerset House and at the Home Office to get certain prohibitory restrictions removed—viz., the separation of beer and aërated-water bottling when carried on under one roof, and in modifying the conditions at first proposed when aërated-water bottling was declared to be a "dangerous trade." In the absence of Mr. Richard Johnson, J.P. (President of the National Union), who was dining with the Bristol Association (but who unexpectedly put in an appearance before the close of the proceedings and met with a cordial reception), Mr. Walter Davenport replied as a director of the National Union. Mr. James Johnson proposed "The Visitors," for whom Mr. Foxon (in the place of Baron de Bush, detained in Paris) replied. "The Press" was proposed by Mr. Mark Beaufoy, and replied to by Messrs. W. Tooke and J. G. Smith. Some clever music-hall entertainers gave performances during the evening.

Brighton Junior Association of Pharmacy.

On March 3, this Association held its last social and musical evening of the session. Mr. W. W. Savage was in the chair, supported by Mr. W. H. Gibson. An excellent programme was rendered by the following gentlemen:—Messrs. E. A. Hedgcock Best, Arthur Collins, H. E. Hedgcock, W. W. Steers, T. Little, Calway, W. H. Andrews, A. H. Cupit, J. King, W. J. Davies, Hutchings and Dewey, Master Collings, and Blind Harry.

Bristol Pharmaceutical Association.

The members of the Bristol Pharmaceutical Association met in large numbers at Stuckey's Restaurant on Wednesday night, under the presidency of Mr. B. Allen. Amongst those present were Messrs. Troake, Jones, Biniford, Moss, Hermann, Stroud, Cole, White, Chandler, Plumley, Turner, Dibble, Bennett, Sleight, Barry, Groome, Hart (Clevedon), Warren, Good, Moore, Buxton, Hickman, Young, Whiston (Bath), Wintle, Eveleigh, Pitchford, Luxton, Jennings, L. Vigis (Bath), Berry, B. Keen (Hon. Sec.), &c. It was the first time the Association had met for dinner, but the speeches emphasised the hope that it might not be the last.

Mr. Keen mentioned that letters expressing regret at inability to attend had been received from the President of the Pharmaceutical Society (Mr. Walter Hills), who telegraphed wishing the Association every success, Mr. Park (President of the Plymouth Association), and Mr. Charles Townsend (the late member of Parliament for Bristol North), who had promised to take the vice-chair. Among the speeches,

Mr. E. Young (Totterdown) proposed "The Pharmaceutical Society of Great Britain." He declared his loyalty to the Society, and said the Society held an unchallenged position. Two charters had been given it, and should there be in future progress made in pharmacy it would be through that organisation. Therefore it was their duty to support the Society The Society was in its constitution democratic, and any institution nowadays, if it was to have a lasting career, must be democratic. He was satisfied with the Council, but would be still more so when they sent gentlemen from Bristol or Clifton to represent them.

Mr. Keen, in responding, said the Society had never aimed at trade-unionism, but something much higher and better. From the foundation to the present time its object had been to elevate all those persons who were embraced in the practice of pharmacy—education in its broadest and most liberal sense. Great progress had been made since the Pharmacy Act had been passed. If they took the rank and file of men engaged in the trade years ago and compared them with the men of to-day, they must admit that the latter were of a higher type, and great advancement had been made in the way of culture and refinement. It was something to belong to a society which had such noble objects and ends in view. It was easy to criticise it, but wiser to join it. Mr. Keen enumerated the functions of the Society, and urged that the pharmacist of the future must be a liberally-educated man.

Mr. Algernon Warren gave "The City and Trade of Bristol." The trade of the city, he said, had in late years largely increased, for even though some industries had languished, others had developed in most gratifying manner. Their own particular trade, he humorously remarked, suffered by the people being so abnormally healthy.

Mr. J. R. Bennett, who replied, claimed to be an unqualified practitioner. He had a brother a doctor who dispensed his own medicine, and when he visited him he assisted him. But all he did was to wash the bottles and put on the labels.

Mr. G. Turner proposed "The health of the Visitors," for whom Mr. E. Whiston and Mr. Viger, both of Bath, replied.

"The Bristol Pharmaceutical Association" was proposed by Mr. Plumley, and replied to by Mr. Chandler; and Mr. Jones, of Birmingham, offered some congratulatory remarks.

The speeches of the evening were agreeably interspersed with glees, songs, and recitations.

The Winter Session.

SOCIETY OF CHEMICAL INDUSTRY.

Manchester Section.

At the meeting on Friday, when the minutes of the previous meeting were read, Mr. A. E. Powell took exception to the part of them referring to the remarks he made as to the non-publication in the *Journal* of the Society of the paper read before the Section by Dr. Stevenson Macadam, and the publication of a paper by Dr. Lewkowitsch which was not read. He said he desired to read an extract from something that had appeared in The Chemist and Druggist on the subject. The Chairman (Mr. G. E. Davis) said he did not think they could go into what The Chemist and Druggist said. Mr. Powell said that in that case he would make the statement himself, and would call attention to the fact that previous to Dr. Macadam reading his paper the Secretary announced to the meeting that owing to an important engagement Dr. Lewkowitsch, would not be present, and that his paper would not be read. That did not harmonise with the statement in the minutes that Dr. Lewkowitsch's paper could not be read for want of time. The Chairman said he might explain, in reply to Mr. Powell, that he was to a great extent responsible for the appearance of Dr. Lewkowitsch's paper in the *Journal*. At the commencement of the meeting the Secretary informed him that Dr. Lewkowitsch would not be present, and that being so he (the Chairman) said that it would not be advisable to publish the paper; but he afterwards found that Dr. Lewkowitsch wished to have his paper taken as read, and he therefore, perhaps unfortunately, thought it would be best to have it published in the earliest number of the *Journal*. He had perhaps committed an error of judgment, but he thought that no real damage had been done. Mr. Powell said he might add that the reason why he raised the question again was that the statement of the Secretary and The Chemist and Druggist's remark about his "question being thus disposed of" might have given rise to the impression that on a former occasion he was humbugging the meeting and delaying the reading of the papers. The Chairman reminded Mr. Powell that the question before the meeting now was that of the accuracy of the minutes. He added that Mr. Bell, the Secretary, was to some extent correct in stating that Dr. Lewkowitsch's paper could not be read for want of time, as he remembered that after Dr. Macadam's paper had been read Mr. Bell came to him and asked if he should read Dr. Lewkowitsch's paper, and he replied "No, it is too late." The motion for the adoption of the minutes was then put and carried by a very large majority.

In the absence of Dr. Liebmann, the Secretary read a paper on the "Knowledge of Para-nitro-aniline Red." The experiments detailed had been undertaken by Dr. Liebmann with a view to preparing

PURE BETA-NAPHTHOL

from the commercial product. After referring to the literature on this subject, or rather the lack of literature, he described how he had purified the trade product. He dissolved 50 grammes in 500 c.c. of toluene, and cooled when the precipitate was filtered and washed with 100 c.c. of a mixture of equal quantities of petroleum-ether and toluene, finally washing with 50 c.c. of pure petroleum-ether. In this way he obtained 40 grammes of a compound melting at 122°–124° C. By recrystallising he succeeded in getting the melting-point almost constant at 122°–122·5° C. This presumably was the pure product, but there was no test generally known for detecting alpha-naphthol in the beta compound, and he submitted the following one devised by himself:—0·144 gramme of beta-naphthol is dissolved in 5 c.c. of alcohol and 15 c.c. of toluene in a graduated tube. In a separate tube 0·14 gramme of para-nitro-aniline is dissolved in 9 c.c. of dilute hydrochloric acid, cooled and di-azotized with 1 c.c. of normal sodium-nitrite solution. One cubic centimetre of this solution is then run into the graduated tube containing the naphthol solution. Shake well and add water. Two layers are formed, the toluene layer is removed by a separating-funnel and shaken up with 5 c.c. of normal caustic-soda solution. The colour so formed is compared with the colour produced in a similar way with solutions of beta-naphthol containing known quantities of the alpha compound. In this way the test is made quantitative as well as qualitative, and shows as little as 0·01 per cent. of the alpha compound.

Mr. Irwin then read a paper on the "Luminosity of Hydrocarbon Flames."

Liverpool Section.

At last week's meeting of this Section Dr. G. Schack-Sommer read a paper on the part played by

MICRO-ORGANISMS IN CERTAIN CHEMICAL INDUSTRIES,

with special reference to tanning, brewing, and wine-manufacture, in the course of which he mentioned some interesting facts, from which we quote. Dr. Alfred Koelliker has made pure bacterial cultivations serve him in preparing some of the pharmaceutical preparations sold by his firm. Colours for eatables and confectionery goods are now prepared with pure cultures of bacteria on rice, a process which the Chinese had known for ages. In the dairy pure-culture bacteria, which produce the desired flavour, and not those which produce unpleasant flavour, are used for inoculating the cream for the purpose of making good butter. The bacteria for this purpose are already in the market, and two or three different ones now being used in this country, the result being that the butter-maker can depend with more certainty upon the product. Brewers are now careful to exclude certain micro-organisms from their fermenting-vats if they wish to get the best-flavoured beer. Wine-makers have been equally careful to adapt the work of Pasteur and others to their methods, and it is now known that specific bouquets are the effect of certain bacteria. Pure-culture yeast has been applied with great advantage in cider and perry manufacture, with the result that these lose their peculiar rough taste and become more winelike. A still more favourable result has been obtained with wines made from berries, especially in the speedier finishing of the product. A wine made from bilberries frequently takes three to four years before it was ready for drinking. With a suitable pure-culture yeast the fermentation takes place more quickly and the wine is better. Current and gooseberry wine, which must contain a high percentage of alcohol, should only be fermented with pure-culture yeast specially adapted for a thorough fermentation. Reference was also made to the work of Dr. Sauer, of Schöneberg, near Berlin, who has by bacterial methods, hinted at by Pasteur, actually produced artificial wine from malt in every way equal in character, flavour, and aroma to similar wines made from must, and, moreover, has succeeded in freeing this product from all malt taste or smell. He makes pure cultivations from yeasts that have a greater power of fermentation than French wine-yeasts, probably arising from the fact that they were gathered from grapes of southern climes, which contain a much higher percentage of sugar. Dr. Schack-Sommer described Dr. Sauer's method of manufacturing the malt-wine, and said that the wine to begin with is akin to beer. Its mode of manufacture is practically identical with that of beer. Its ingredients are also of such a nature as to allow of malt-wine being classed for Excise purposes among the beers. It differs from them in the quantitative proportions of the ingredients, and especially in containing a large proportion of alcohol (18·5 per cent. by volume). It also differs from beers in appearance and taste. The appearance, taste, and bouquet of these malt-wines justify the assumption that they may take the place of genuine grape-wines, although the chemical composition is not the same. He submitted samples of sherry, tokay, and port, which were tasted by the audience, who were delighted with them.

MANCHESTER PHARMACEUTICAL ASSOCIATION.

At the meeting on Wednesday evening a paper was read by Mr. Percy Knott on "Practical Photography." The chair was occupied by Mr. Harry Kemp, Vice-President of the Association, and there was a good attendance of members. Mr. Knott divided his subject—first, into the camera and its fittings; secondly, the taking of a photograph; thirdly, the production of a print from the negative so obtained—and then dealt with other practical parts, such as enlargements,

lantern-slide making, and lantern-slide working from microscopic slides. Regarding the camera and its fittings, he said the main points to be considered about the instrument were that it was perfectly light-tight and perfectly rigid, that the screws were quite secure and would remain in their proper positions whilst the photograph was being taken, and that the back of the camera was or could be placed perfectly parallel with the front or lens portion. He also spoke of swing and reversing backs, and advised all to have at least three double dark-slides. A good rapid rectilinear lens is about the best. He advised the use of a Thornton-Pickard shutter, and preferred a quarter-plate camera for general work. Mr. Knott then dealt with the methods of taking photographs, developing, and so forth. The paper was admirably illustrated with specimens.

The Chairman complimented Mr. Knott on the efficiency with which he dealt with the subject, and a useful conversation followed.

LIVERPOOL PHARMACEUTICAL STUDENTS' ASSOCIATION.

At the meeting held on March 4, Mr. J. Jones (President) in the chair, there was a good attendance.

Miscellaneous Items.

Mr. Harold Wyatt showed specimens of musk-seeds (*Hibiscus abelmoschus*), cassia-buds, and the ripened fruit of *Ricinus communis* from Italy, the latter being very fine specimens.

Mr. H. Pierson showed three samples illustrating his experiments in dispensing menthol. S.V.R. and tr. cardam. co., olive oil and then emulsifying, and rubbing down with the gum and then emulsifying were tried in turn, and by far the best result was yielded by the last-named process.

Mr. Cowley then read his paper,

The Analysis of Fatty Oils.

The paper was largely of an introductory character, and was written with the intention of giving those who heard it a general idea about the analysis of oils, so that they might, if so minded, follow up the subject by reference to text-books. Mr. Cowley first referred to the detection of impurities in oils by taste, smell, &c., which methods are good enough in their way, especially as a guide. He next described the composition of fats, and their principal characteristics and properties. The action of reagents upon them was then referred to, and in detail the following points were dealt with :—Specific gravity should be taken at 15·5° C., or in the case of solid fats at 100° C., according to some authorities. Melting and solidifying points.—Pohl's, Hager's, Redwood's, and the B.P. methods were described. In this section it was mentioned that as the melting-point of the fat is uncertain, especially when there is free fatty acid, the solidifying-point of the fatty acids obtained by saponification is determined. This is called the "Titer test," and depends upon the fact that when a substance is melting and allowed to cool a point is reached when the temperature rises a few fractions of a degree before it falls again.

The quantitative and qualitative chemical tests, which are generally returned along with the foregoing, are the acid, saponification, ether, Hehner, Reichert-Meisel, iodine, and acetyl values. Mr. Cowley described how each of these is done. Reference was also made to Maumene's test, Becchi's, and the nitric-acid test for cotton-seed oil. Replying to points in the discussion, Mr. Cowley said that peanut oil can be detected in olive oil through the precipitation of arachic acid as a lead salt, which is not soluble in ether as oleates are. He considered that the best test for olive oil is undoubtedly Conroy's. In regard to a statement by Mr. Wardleworth that the B.P test for cod-liver oil is unsatisfactory, he agreed and thought it a matter worthy of investigation. He was not aware of any reliable test for peach-kernel oil, and mentioned that hydrocarbon oils are indicated in fatty oils by the lower saponification number of the oils containing them. Mr. H. Wyatt, jun., added that he had seen a test for peach-kernel oil in an Italian paper. It is to add a saturated solution of potassium bisulphite, when a precipitate of benzoic aldehyde is formed if peach-kernel oil be present.

PHARMACEUTICAL CHEMISTS' AND APOTHECARIES' ASSISTANTS' ASSOCIATION OF IRELAND.

A meeting was held at Dublin on March 5, in the Pharmaceutical Society's House, Mr. W. McCarthy, L.P.S.I. (President), in the chair. A letter was read from the Registrar of the Pharmaceutical Society, acknowledging with thanks the receipt of a copy of a resolution passed at a meeting of the Association in January, placing at the disposal of the Council a gold medal to be awarded as the Society considered best. Mr. Ferrall explained that his Council had previously decided upon offering a similar prize, and in the circumstances regretted their inability to accept the offer, but that the Council wished it to be clearly understood that they fully appreciated the motive which had prompted the resolution, and were much obliged to the Association. Gratification was expressed at the kind wishes conveyed by the Council. Subscriptions were acknowledged with thanks from the following firms:—The Apollinaris Company (per Dr. Walsh), 2*l.* 2*s.*, the Apothecaries' Hall of Ireland, 1*l.* 1*s.*, Hodgkinson, Treacher & Co., 1*l.* 1*s.* Several new members were proposed, after which Dr. J. A Walsh, the recently-elected Pharmaceutical Councillor, read a paper on

Crystallography.

The word crystal, said the lecturer, was originally applied to rock-crystal from its resemblance to ice, and it subsequently became the generic name for all solid transparent lustrous bodies. There are many substances, however, which possess these qualities and which are yet not true crystals. For instance, the gums and all those transparent solids which we know under the name of colloids. The differences existing between them and true crystals can best be appreciated if we compare a crystal with a piece of glass modelled so as to represent the external form of one. The most striking difference is apparent in the behaviour of the two towards light. The glass transmits light equally well in all directions, due allowance being made for difference in thickness, whereas you can see through the crystal much better in some directions than in others. This and other characteristics of crystals having been explained, the lecturer defined a crystal as a homogeneous solid body, of definite chemical composition, whose physical properties are the same in parallel directions but are generally different in directions which are not parallel. Having dealt with crystals and the measurement of their angles geometrically, Dr. Walsh said he thought an excellent exercise for the pharmacist, when time permits, is to spread some crystalline salt on a sheet of paper and search through it for perfect crystals. One feels delighted when an exceptionally regular one turns up which has withstood the jolting and knocking of its comrade crystals, and has preserved its pristine form. It is wonderful how this impresses upon one the general shape of the crystals of each substance, and thus enables him to assure himself at a glance that the label and contents of his bottles agree. Artificial crystals may be produced by sublimation, fusion, solution, molecular change, or electrolysis. Sublimation is usually employed in the case of substances whose melting and boiling points are not very far apart, and where, therefore, the substance passes directly from the solid to the gaseous state, or, if liquefaction occur during heating, the vapour passes directly back to the solid state. By fusion many elements, such as sulphur, copper, lead, silver, and bismuth, as well as many compounds, separate from the molten state in crystals. The best crystals are usually obtained in this manner by breaking a hole in the solid crust formed on the surface of the cooling mass and pouring off the still liquid portion. It is more than possible that the crystals of nature to a great extent owe their origin to the cooling down of the earth's crust from a molten state. One of the most interesting facts in this connection is that Moissan has recently synthesised the diamond by a process consisting essentially of dissolving carbon in molten iron and allowing it to crystallise out. The formation of crystals by solution is well known. The fourth method is by molecular change. Many solid substances, like silver, iron, &c., have the power of changing spontaneously from the amorphous to the crystalline form by the rearrangement of their molecules. Crystallisation by this means is often assisted by heating the amorphous substance

in a stream of gas; this method is applicable to most of the metallic oxides. Liquids also promote this change in insoluble substance—as, for instance, if zinc carbonate be left in contact with water it will become transformed into calamine (the crystalline condition of this substance), although there is no question of solution whatever in the matter.

The fifth method of producing crystals is by electrolysis or the passing of electric currents through solutions of the substances to be crystallised. This method is not much used, as, unless very weak currents be employed, the crystals are deposited in an irregular manner and are spoiled by structural anomalies. The use of very weak currents necessitates a tedious process, much time being thus occupied. This method may be employed for some salts of silver, copper, and lead, but it is not used to any practical extent by manufacturers.

The remainder of Dr. Walsh's lecture was a philosophical discussion of the science involved in crystallisation by solution Much admiration of the lecture was expressed by the speakers who commented on it.

Personalities.

Mr. Charles T. Sellens, chemist and druggist, Lydd (Kent), has been nominated for reappointment as borough auditor, an office he has held for eleven years.

Mr. James Nickson, chemist and druggist, Ludlow, has been re-elected a borough auditor. He headed the poll with 211 votes, 46 more than received by the next successful candidate.

Mr. Richard Harding Bremridge, B.A.Oxon, son of the Secretary and Registrar of the Pharmaceutical Society, has completed his medical examinations, and has been registered as L.R.C.P. and M.R.C.S.E.

The *Bristol Mercury* says that Mr. Henry Hodder, the well-known chemist, and managing director of H. Hodder & Co. (Limited), is lying at his residence very seriously ill. He has been confined to his bed nearly three months, and there is little hope of his recovery.

Mr. Daniel Richard Harvest, of Burleigh House, Belsize Lane, and of the firm of W. & D. Harvest & Co., of Dowgate Dock, Upper Thames Street, E.C., drysalters, who died on January 11 last, in the 71st year of his age, has left a personal estate valued at 39,195*l.* 4*s.* 3*d.*

Mr. J. Hertz (Hertz & Collingwood) has undertaken to provide a complete outfit of medical appliances for the new operating-room of the Cogttae Hospital at Enfield, where he resides. The late Mr. John Banks (S. Maw, Son & Thompson) had presented an operating-table to the same hospital a few weeks before his death.

By the will of the late Mr. T. G. Taylor, of Nottingham, who was at one time in business as a chemist and druggist, bequests amounting to about 10,000*l.* are left to various charitable institutions, including 250*l.* to the Bucks Infirmary at Aylesbury, where fifteen years ago Mr. Taylor had the business now owned by Mr. E. T. Palmer, in the Market Square.

Mr. A. E. Grey, of Botwright & Grey, 13 Spencer Street, E.C., advocates in the *Optician* the founding of an institute or college where the practice of optometry, or the treatment or alteration of light by lenses, shall be thoroughly taught by proficient instructors. He says:—"It is surprising that the claims of the optician to protection in the practice of his profession have not long since been recognised, and it is quite time jealousies were put aside and a strong union of prominent men organised for obtaining the protection to which it could be easily demonstrated that opticians are entitled." Mr. Grey, who is an old pupil of Professor Tyndall, offers twenty guineas to start such a scheme. We may add that a committee of the Spectacle-makers' Company is considering the desirability of granting diplomas to members of the optical profession.

Business Changes.

Mr. J. Johns, late of Deal, has taken the business of Mr. Edmunds, Tottenham, N.

Mr. William Duncan, late of Elgin, has taken over the business of Mr. Hay Marshall, Clapton Common, N.E.

Mr. F. I. Johnson has purchased the business of Mr. Henry Ebbage, the Park Street Pharmacy, Southend-on-Sea.

Mr. E. R. Cherrett, Monkwearmouth, has opened a branch pharmacy at 8 West Trinidon Street, Deptford.

Messrs. Praschkauer & Co. (Limited) have removed from 109 Fenchurch Street, to 112 Fenchurch Street, E.C.

The Hungarian Paste Company (Morgan & Wesley) have opened a London office at Aldermary House, 60 Watling Street, E.C.

Mr. John H. Gaskin has succeeded to the business at 122 High Street, Harborne, lately carried on by Mr. Richard S. Gould.

Mr. John Bull, pharmaceutical chemist, 317 Lavender Hill, S.W., having disposed of his lease, the business has been purchased by Messrs. Lawrence & Co., 125 St. John's Hill, New Wandsworth, S.W.

Mr. W. Jones, chemist, Picton Road, Wavertree, Liverpool, has purchased the business at 29 High Street, Wavertree, hitherto carried on by Mr. H. S. Herbert, and will make this his head establishment. The Picton Road shop will be carried on by a qualified manager.

Mr. Vincent Wood, manufacturer of surgical elastic hosiery trusses, &c., will shortly remove his offices, showrooms, &c., to 4 Albion Place, Blackfriars Bridge, S.E., where (as we have already noted) he has acquired the lease of extensive premises, on which he will deal with special orders. His stock and materials he will still manufacture at his Nottingham works.

Marriages.

Jones—Jones.—February 4, at Horeb Chapel, Llanrwst, by the Rev. J. P. Roberts, Llanrwst, assisted by the Rev. R. Garrett Roberts, Aberdovey, Mr. E. D. Jones, chemist, Medical Hall, Llangollen, to Miss Edith Jones, eldest daughter of Mr. Jones, The Bull, Llanrwst.

Wardley—Hakeman.—On March 2, at the Parish Church, Terrington St. Clement, King's Lynn, Thomas Wardley, chemist and druggist, Dalton-in-Furness, Lancs, to Ethel Mary, third daughter of the late Mr. Bailey Hakeman, of Fleet, Lincs.

Deaths.

Burrough.—On Sunday, March 7, at Devonia, Thornton Heath, after five days' illness, Mr. James Burrough, of Cale Street Distillery, Chelsea, aged 62.

Coles.—February 24, at Great Missenden, Mr. G. Coles, chemist and druggist. Aged 80 years. Mr. Coles was an active worker in connection with the Baptist Church, and for twenty years held the office of deacon.

Howard.—On February 4, Mr. George Howard, chemist and druggist, Hooley Hill, Manchester. Aged 55.

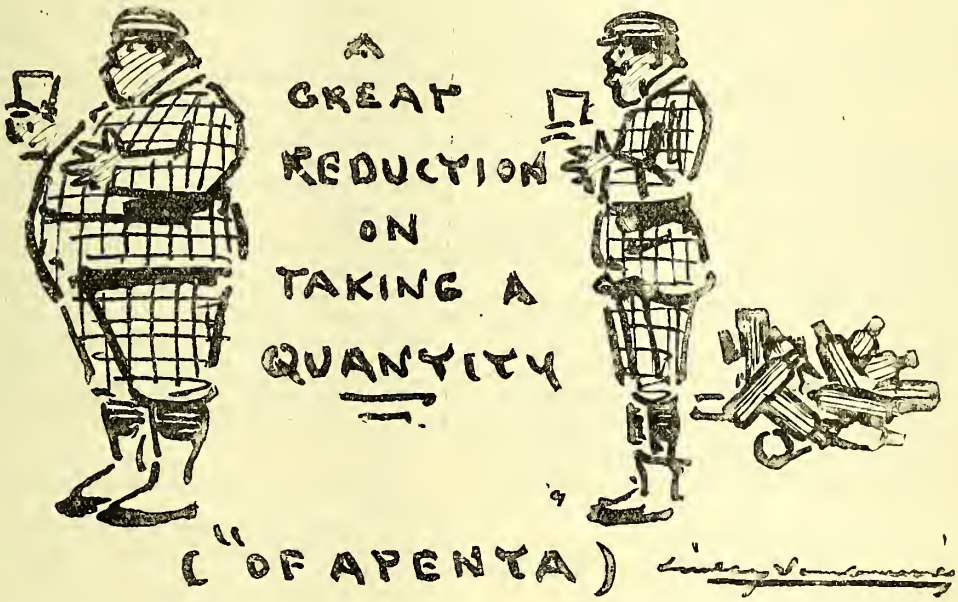
Kirkpatrick.—March 4, at The Oaks, Scalby, Mr. W. D. Kirkpatrick. Aged 67 years. Deceased was a son of Dr. Kirkpatrick, Scalby, and served his apprenticeship with Messrs. Lofthouse & Co., chemists and druggists, Hull. He, however, never followed his profession, but took a prominent part in raising Shire horses.

Tremeer.—On March 6, at The Square, Barnstaple, Arthur John, eldest son of Mr. J. J. Tremeer, chemist and druggist, of Barnstaple, aged 26.

White.—On March 3, Mabel, the eldest and beloved daughter of Mr. J. M. White, chemist, Devonport, in her 20th year.

SHOWCARD COMPETITION.

BY the courtesy of the Apollinaris Company we are able to append a clever sketch by Mr. Linley Sambourne in honour of Apenta water. We have no idea whether the Apollinaris Company intend to utilise this sketch for advertising-purposes. Clearly, however, it is capable of being so employed.



We, however, make the suggestion that our skilful correspondents should send us sketches (the more "outliny" the better) embodying some advertising idea which might be used in such a way as we have suggested. The article treated must be something advertised in THE CHEMIST AND DRUGGIST this year or in THE CHEMISTS' AND DRUGGISTS' DIARY, 1897. Competitors who are not clever at drawing need not send a sketch; they can describe their idea on a postcard. Those who offer a drawing may send it on a white card enclosed in an envelope if they think fit. The competition is open to all subscribers, their assistants, and families.

A prize of at least one guinea will be given at the Editor's discretion; and we may add that publication of any design in THE CHEMIST AND DRUGGIST will not prevent the artist from negotiating with the advertiser whose goods are dealt with for the sale of his idea, if that course should be found feasible.

We shall leave this competition open until April 10.

OUR DIARY ADVERTISEMENTS.

REPORT ON COLONIAL AND FOREIGN VOTES.

THE very successful competition amongst home subscribers, which was reported in our Winter Number, has a good parallel in the colonial and foreign section which closed with the last Australian mail inwards. We find that subscribers in all the Australian colonies have joined in the competition, as well as chemists in the various Indian provinces, Ceylon, different parts of Canada and of the West Indian Islands, Germany, Burmah, British Honduras, the United States of America, Orange Free State, Natal, Malta, Cape Colony, Denmark, Belgium, France, and the Straits Settlements.

The vote is larger this year, although some of the voters complain that the laws of their country prevent them using as a postcard anything but the official cards—a drawback which we hope to provide for in our next competition.

Hitherto we have treated the colonial and foreign votes by themselves, as it is interesting to all to know how differences of circumstance affect the position. We again retain this plan, and award the prizes to colonial and foreign voters upon their own votes. But we should like to compare this second vote with the one reported upon in January, and take the three at the top in each section as sufficing for comparison. The following table covers this:—

Question	Home Replies	Colonial and Foreign
1. Business-promoting advertisement	Burroughs, Wellcome & Co. W. Kemp & Son. Oppenheimer, Son & Co.	The same, but B., W. & Co. six times, instead of twice, as many votes as the next to them
2. Proprietaries most prescribed by doctors	Fellows's syrup Kepler's malt Vaseline	Fellows's syrup Kepler's malt P., D. & Co.'s cascara sagrada
3. Proprietaries most asked by public	Beecham's pills Vaseline Kepler's solution	Beecham's pills Scott's emulsion Pears' soap
4. Most attractive illustration	Stevenson & Howell's lemons Burroughs, Wellcome & Co.'s exhibit Bowers Bros'. shampoo	The same
5. The best page	Day's oil, p. 80 Bowers Bros., p. 150 Frame Food Co.'s	Day's oil Bowers Bros'. Christy Strong's
6. Best less than a page	Scott & Bowne Mackenzie's catarrh-cure Camwal	Scott & Bowne Norse Sea cream J. I. Hicks
7. Should be better advertised	Bovril Fellows's syrup Benger's food	Scott's emulsion Vaseline Maypole soap
8. Advertisements ordered from	W. Kemp & Son's Burroughs, Wellcome & Co.'s Bloudeau et Cie.'s	Burroughs, Wellcome & Co.'s W. Kemp & Son's Fletcher, Fletcher & Co.'s

These results so closely correspond with the home vote that it may be desirable on another occasion to judge the colonial, &c., cards on the home basis; but we shall reserve decision upon that point until we know what the 1898 questions may be.

We regret that space does not allow us to go into further analysis of the replies; but we cannot pass the following printed comments by Dr. James Key, of Worcester, Cape Colony. The paragraphs represent his replies to the questions and the reasons for the same:—

1. *Fly Cemetery*—A rough joke is always popular.
2. *D. & F. Chloroform.*—Medical men never seem quite at ease before an operation unless they have "D. & F."
3 *Maw's Feeding-bottles.*—I need not say why.
4. *Tom-Tom* (page 33).—Not because a likeness is generally acceptable in an advertisement, but because these two gentlemen seem to invite better acquaintance.
5. *May & Baker's.*—Because crowded confused pages are skipped, while a plain well-balanced one is comfortably taken in by the eye. I enclose a leaf of your Diary used by me in 1879 to show that this firm have long excelled.
6. *Northern Accident* (page 604).—There seems a peculiarly striking effect in this style of lower half-page. See last advertisement in *Hazell's Annual*, 1897 (also an Insurance Company), and Silverlock's in the *C. & D.* for December 12, 1896, page v.
7. *Jeyes' Fluid.*—You will be surprised at a thing so well advertised being still deficient; but not being allowed to give advice unasked I keep (till Jeyes write and inquire) what we use it for out here to myself.
8. *Dish-washers* (page 603).—Very serviceable where servants are scarce or slatternly, as in some of the colonies.

The doctor adds that if we wish to give him a prize we can put it in the form of a bronze medal for the local golf-club, which threatens to annihilate both professions.

We find that two of the competitors have named six correctly and another two have named five correctly, so we shall put them on the same footing as the home-winners already announced. The 10 guineas will, therefore, be distributed as follows:—

First Prize of 5*l.* 5*s.*

Mr. Daniel Davison, Ph.C., Jetty Street, Cromer, who named seven correctly.

Five Prizes of 1*l.* 1*s.* each.

Mrs. A. Hustler, Unley Road, Adelaide, S.A.
Mr. A. E. Fagan, 73 Rue du Prince Royal, Brussels.
Mr. James McDonnell, White House, Portaferry, co Down.
Mr. Harry Hare, c/o Mr. H. Barton, St. Ives, Hunts.
Mr. Samuel Sugden, Waterfoot, near Manchester.

The above named six correctly.

Book Prizes.

Mr. Lindsey Knight, 113 Sturt Street, Ballarat, Melbourne.
Mr. C. R. J. Glover, 165 Gilles Street East, Adelaide, S.A.
Mr. W. D. Armstrong, c/o Mr. R. M. Galenby, chemist, Wangunui, N.Z.
Mr. T. R. Quill, Christchurch, N.Z.
Mr. C. R. Kiver, Christchurch, N.Z.
Mr. E. J. Burt, c/o Mr. G. Shorland, Rangiova, Canterbury, N.Z.

Books have already been distributed to twelve competitors named in our Winter Number.

Formaline in Mosquito-bites.—Dr. Henry Liston, of Sunderland, states that whilst surgeon in the B.I.S.N. Company's service on the Zanzibar coast he used formaline for mosquito-bites with remarkably quick and good results. It should be applied to the bites as soon as possible with the cork of the bottle, and allowed to dry on.

To most of our Fraternity, says the *Lancet*, and especially to those in busy practice, the pharmacist's traveller is not a too-welcome visitor. His name is legion, his words not few, and his wares often merely ready-made prescriptions not suitable for general use—in fact, ordinary patent remedies. The medical profession can hardly be expected to become the mere promoters of nostrums. Yet this, it would appear, is what is expected of them.

Legal Reports.

MESSRS. BURROUGHS AND WELLCOME'S PARTNERSHIP.

In the Chancery Division of the High Court on March 5, before Mr. Justice Kekewich, Mr. Warrington, Q.C., moved with respect to an award made by Mr. Frederick Whinney in a reference which he had undertaken in regard to partnership accounts between the late Mr. Burroughs and Mr. Wellcome. The learned counsel said Mr. Whinney had, he thought, misapprehended the reference to him, partly consequent, he suspected, on the agreement for reference not being before him.

Mr. Justice Kekewich: I should have thought Mr. Whinney too old a hand for that.

Mr. Warrington said it was plain that Mr. Whinney had not followed the agreement, and he thought he had misunderstood certain points. At all events, he had now to ask that the award might be varied on the finding that a balance of 63,563*l.* 5*s.* 9*d.* was due from Mr. Wellcome, or, in the alternative, that the award should be set aside. The question raised by the action out of which the reference arose was how much was to be paid by the defendant, who was a partner of Mr. Burroughs's at his death, the plaintiff being that gentleman's executrix, for his share in the business. In April, 1896, an agreement was entered into between the parties that defendant should on May 6 then next pay to the plaintiff 40,000*l.* on account of the amount payable by him for the testator's interest in the partnership property; and on the payment of that amount plaintiff consented that defendant should obtain from the Chancery Lane Deposit Company the title deeds and other documents there lodged, and the key of the safe containing them. The question then arose what was the exact balance remaining payable to the plaintiff by the defendant on the capital sum payable on the death of Mr. Burroughs.

Mr. Renshaw, Q.C. (who appeared on the other side), said it might save time if he assented that this was the point now at issue.

This question (Mr. Warrington went on to say) was referred to two firms of accountants, one nominated by each of the parties, and it was agreed that the amount decided to be payable by defendant to the plaintiff should be met by three equal instalments in May, August, and February, 1898, with interest at the rate of 5 per cent. per annum on the balance specified as the amount due from February 6, 1895, to the date of payment, plaintiff and defendant each to pay his and her costs in the action, including a counterclaim, and also the fees of their respective accountants. On the matter coming before the accountants difficulties arose, and both parties being dissatisfied a motion was made to his Lordship, with the view of getting the agreement set aside and going on with the action. On this, in May, 1896, it was ordered, the parties to the original action by their counsel consenting, that the agreement of April should be modified, so that the question as to the exact amount of the balance, after the payment of the 40,000*l.* by defendant to the plaintiff, should be referred to Mr. Frederick Whinney to determine it, as a matter of business between business men, on being supplied by each party with a statement of facts; and on defendant paying to the plaintiff 40,000*l.* on June 25, 1896, with interest to May 5, further proceedings in the action should be stayed beyond such as might be necessary to carry the agreement into effect. Quoting Mr. Whinney's award, the learned counsel pointed out that he evidently had the order and also the articles of partnership, but not the agreement, before him, and he found and awarded that the 40,000*l.* had not been paid——

Mr. Justice Kekewich: What had he to do with that?

Mr. Warrington replied nothing whatever, and went on to say that the award found, as remaining payable to the plaintiff, the sum of 63,563*l.* 5*s.* 9*d.*, with interest (the award added) from November 2, 1896, at such rate as might be determined by the Hon. Mr. Justice Kekewich. Mr. Whinney, however, had nothing to do with the interest, which the agreement dealt with, but had simply to find what the capital balance was. The award went on to say that he had not dealt with the costs of the reference, but he had fixed the

costs of the award at 143*l.* 10*s.*, including the cost of his solicitor, and he directed such sum to be paid, 118*l.* 10*s.* by the plaintiff, and 25*l.* by the defendant. He (the learned counsel) could not conceive that Mr. Whinney, in coming to these conclusions, had the agreement before him, or he would not have done as he did.

Mr. Renshaw said the only question between the parties really was whether the interest was calculated aright or not. He submitted that it was. They had agreed it should be 5 per cent., and all he wanted was not to have to pay it twice; that was all. The referee had made it run from November 2, 1896, and according to the agreement ——

Mr. Justice Kekewich: I see Mr. Whinney is here; shall I ask him?

Mr. Renshaw said if his Lordship thought it well to ask Mr. Whinney how he had calculated the interest he (Mr. Renshaw) should not object, and proceeded to point out that it was not clear how the interest had been made up on the ultimate balance.

Mr. Justice Kekewich, remarking if that were ascertained there would be an end of the matter, invited Mr. Whinney on to the Bench, with his book containing his figures making up his award. It then transpired that he had made four divisions in arriving at the capital balance, and on one of these had allowed no interest—viz., on profit, the other three divisions being goodwill, capital, and drawing account.

Mr. Warrington submitted that Mr. Whinney was not entitled to deal with the figures under these heads; and some analysis of them was about to be made, when counsel on both sides suggested that it would be more satisfactory if the matter went back to Mr. Whinney to revise his figures in quiet and by the light of the agreement.

His Lordship agreeing that this would probably save further disputes, besides being more consistent with what ought to be done in the circumstances, Mr. Whinney was asked to take back the present, and bring up a revised award.

PHARMACY PROSECUTIONS IN GLASGOW.

In the Glasgow Sheriff Court, on March 5, before Sheriff Lee, several cases, brought up at the instance of Mr. Richard Bremridge, Registrar to the Pharmaceutical Society, for contraventions of the Pharmacy Act, were disposed of.

First Case.

James Tulloch, assistant chemist with Dr. Aitken, at 378 Rutherglen Road, was charged with contravening sections 1 and 15 of the Pharmacy Act by having, on November 28, while not being a duly registered chemist and druggist, sold to an agent of the Pharmaceutical Society in the shop at the above address a quantity of morphine which formed an ingredient in a bottle of Powell's balsam of aniseed, the same being a scheduled poison.

Mr. T. B. Morison, Edinburgh, appeared for the Society. Respondent was defended by Mr. Richardson.

Mr. Richardson, at the outset, took several objections to the relevancy of the complaint, which were all repelled by the Sheriff.

Mr. Richardson asked his Lordship to make a note of the objections, as more would be heard of them in a higher Court.

Respondent then pleaded guilty, and

Mr. Morison asked for the full penalty, as in Glasgow ignorance of the law could not be pleaded, and as some twelve or eighteen months ago there were a number of similar prosecutions and the full penalty was imposed.

Mr. Richardson said this was not a bad case. The respondent was 22 years of age; he had had eight years' experience as a chemist, and had served five years' apprenticeship. He went up for examination in January last, but unfortunately failed in one subject. There was an attempt made here to purchase a scheduled poison subsequent to this, but it failed.

Mr. Morison: That is untrue.

Mr. Richardson said that was his information. He said that a proprietary medicine put up and labelled, as in this case, could hardly be said to constitute a risk to the public. The Society might be justified in obtaining a single conviction, and so bringing the law to the knowledge of ignorant people, but it looked like vindictiveness to bring up seven or eight cases all for the same thing.

Mr. Morison said that morphia and morphine were given frequently as a medicine to children, and had a very deleterious effect upon them. There were recorded cases where a fiftieth part of a grain had poisoned an infant.

The Sheriff imposed a modified penalty of 2*l.* and 1*l.* 1*s.* expenses.

Mr. Richardson: Oh, my Lord, in Airdrie the accused was only fined 10*s.*, and there were two charges.

The Sheriff declined to modify the fine, and Mr. Richardson remarked that "the case would yet be heard of in another Court."

Second Case.

LADY CHARGED WITH CONTRAVENTION.

Miss I. Noble pleaded not guilty to having in the drug-shop of Dr. Barrie at 155 Eglinton Street, where she was employed as an assistant, sold (1) a quantity of laudanum, being a preparation of opium, (2) morphine as an ingredient in Powell's balsam of aniseed—both sales being made on November 28, and the accused not being registered as a chemist and druggist.

Mr. Rutherford Hill, Assistant-Secretary to the Pharmaceutical Society in Edinburgh, spoke to Miss Noble's name not being on the register, and to the analysis of the laudanum and balsam of aniseed. He said that in the bottle of Powell's balsam there was not less than one-tenth of a grain of morphine.

Dr. Barrie, respondent's employer, was in the court, and spoke on her behalf. He said Miss Noble knew quite well that she was not to sell laudanum or Powell's balsam. She said she made the sales when he (Dr. Barrie) was himself on the premises, being in his consulting-room at the time.

Alexander Spence, registered chemist, 133 High Street, Linlithgow, and Joseph Tait, 21 Oxford Street, Edinburgh (the latter an assistant in the office of the Pharmaceutical Society at Edinburgh), spoke to making the purchases. Both witnesses said that Dr. Barrie was not in the shop at the time.

Dr. Barrie (to witness Spence): May I ask at what hour did you buy these bottles?

The Witness: We marked the hour on the labels at the time. It was 5.50 P.M.

Dr. Barrie: I am quite conscious that I was in the shop at the time. I think, my Lord, it is wrong that they should have allowed this to remain over for three months before bringing up the case for trial. She is thoroughly aware that she should not sell any poisons unless I am present. She did it on this occasion, thinking because I was in the shop myself that she did the right thing.

Mr. Morison: My information is that this lady does this thing regularly.

Dr. Barrie: She has not sold a bottle of Powell's balsam this year.

Mr. Morison: I am speaking about poisons generally.

The Sheriff, addressing respondent, said: I think you are perhaps not personally responsible for this. At the same time you have undoubtedly committed what is an offence under the Act, and what is a very bad offence, although I do not think the offence is so much yours as that of your employer. Your employer is a medical man, and must be thoroughly aware not only of the Act which he has allowed you to infringe, but also of the danger of supplying, without proper care, the medicines which you sold. I cannot do less than repeat the fine I made in the last case—2*l.* and 1*l.* 1*s.* of expenses.

Dr. Barrie: She cannot afford to pay the fine, my Lord.

The Clerk of Court: If the fine and expenses are not paid her effects will be pounded.

Third Case.

Mr. J. McArthur, assistant chemist with Dr. Lawson at 506 Cathcart Road, was charged with making three sales of poison while he was not registered as a pharmaceutical chemist or chemist and druggist—(1) laudanum, (2) a prescription containing cantharides, (3) a quantity of morphine in Budden's balsam.

Respondent, who pleaded guilty, was defended by Mr. Arch. Brownlie.

Mr. Brownlie said his client was an assistant in a doctor's

shop, and he could hardly be said to be untrained, because he had had four years of it. There was really no danger to the public in anything supplied here, or by the way in which it was supplied, and he submitted it was a case for as modified a penalty as possible.

Mr. Morison pointed out that there were three offences, and one was dispensing cantharides in a prescription.

Mr. Brownlie said the laudanum was the only sale of any moment. It was a more serious thing than the other two.

Mr. Morison: I do not admit that, my Lord. The cantharides is in a plaster, and it can be used for criminal purposes.

Mr. Brownlie: I am surprised to hear that. My information is that it is not so dangerous as he says. The third charge is in reference to a bottle of balsam. These bottles do not show on the outer label that there are poisons in them. It is only when you take off the outer wrapper that you find it marked "Poison." The doctor's instructions are not to sell poisons unless he is in himself.

The Sheriff said the experience the accused had acquired was rather against him than in his favour. The penalty was 1*l.* of each offence and 1*l.* 1*s.* of expenses.

Fourth Case.

A QUESTION AS TO THE ANALYSIS.

Archibald Taylor, assistant in the chemist's shop of Dr. Robertson, at 90 Main Street, Gorbals, was charged with having, on November 23, he not being a duly registered chemist and druggist, sold laudanum to Alexander Spence, 133 High Street, Linlithgow.

Respondent, who was undefended by an agent, pleaded not guilty.

Mr. Rutherford Hill spoke to analysing the contents of the phial of laudanum.

The Respondent: That bottle did not contain laudanum. I want to know how much opium he found in that bottle.

Mr. Hill: I got a very large proportion of opium in it.

The Respondent: I deny it was laudanum at all. He ought to give a certificate of the analysis. How much morphine did you find in that bottle?

Mr. Hill: I did not look for morphine; I looked for opium.

The Respondent: You should have looked for both if you are an analyst at all.

Mr. Hill said the laudanum corresponded with that of the British Pharmacopœia.

The Respondent: No man can analyse that quantity of laudanum. You must have an ounce at least.

Alexander Spence proved the purchase on the date named from the respondent of a pennyworth of castor oil and a pennyworth of laudanum. The laudanum-bottle was not labelled "Poison." It bore a label written by the respondent, "15 drops in oil."

In reply to respondent, witness said he asked first for castor oil, and when he (respondent) asked if the laudanum was to be used with the castor oil, he replied that it was.

The Respondent (pointing to the bottle): And you got that as the result of your lies.

Joseph Tait spoke to seeing the sale made.

The Respondent (addressing his Lordship) said he never sold poisons. The stuff in that bottle was not laudanum. He had been tried twice by the agents of the Society, and he refused to sell them poison. The witness Spence came into the shop and told him some story, and he gave him something to do him good to the best of his ability. It was not laudanum that was in that bottle. No man could analyse a 2-dr. bottle of laudanum.

The Sheriff: You have brought no evidence that it is not laudanum.

On the suggestion of Mr. Morison, his Lordship smelt the contents. He asked the respondent: "It was sold as laudanum, I suppose?"

The Respondent: No, sir, it was not. He told me he wanted "a dose of castor oil and something to ease pain." There ought to have been a certificate showing what quantity of opium there is in the bottle, if any.

The Sheriff: I think it would be better probably if more detailed analyses were shown.

The Respondent: There is not enough to kill anybody.

The Sheriff: The witnesses have stated that they found a large quantity. Your defence is not supported by any evidence, and it amounts to a statement by yourself that these witnesses have committed perjury. If you think it worth your while you may still get it analysed by an independent witness. Meantime I have no alternative but to find the charge proven, and I fine you 2*l.* and 1*l.* 1*s.* expenses.

Three Other Cases

were called, but some flaws were found in the complaints—in all cases the names were wrong, and in one instance the wrong address was given.

These cases were therefore withdrawn in the meantime.

A Case at Blantyre.

At Hamilton, on March 9, Helen Robb, an assistant in Dr. Grant's surgery, Blantyre, pleaded guilty to a charge of having, in breach of the Pharmacy Act, retailed poison—viz., morphine—which formed an ingredient in a bottle of Kerr's horehound-honey and tamarind. Mr. Frame, writer, argued the sale of the patent medicine referred to an infringment of the Act. Sheriff Davidson said the label on the bottle was misleading. He imposed a fine of 3*l.*, and 2*l.* 14*s.* 4*d.* of expenses.

THE DENTISTS ACT.

In the Edinburgh Sheriff Court on March 4 evidence was led with reference to the complaint, at the instance of William Broomfield Paterson, 64 Brook Street, London, F.R.C.S.E., L.D.S., Hon. Secretary of the British Dental Association, with concurrence of the Procurator-Fiscal, against Alex. Emslie, carrying on business at 1 Rankeillor Street, Edinburgh. The complaint was that he had contravened the Dentists Act, 1878, in that, not being registered under the Act, and not being a legally-qualified medical practitioner, he had displayed a signboard at his premises with the words "American dentistry" thereon, and by having a brass plate on his door with the words "Dental office." After formal evidence as to the signboard and door-plate, Mr. T. B. Morison, who appeared for Mr. Emslie, asked his Lordship to impose a nominal penalty on the ground that the offence was a very trivial and technical one, and that it had not resulted in any injury to the public. Mr. Dewar, for the complainer, said this was no doubt a technical offence, but it was of a very serious kind, and very injurious to the profession; not only so, but it might have been injurious to the public. Sheriff Orphoot fined the defender 3*l.* 3*s.* with 2*l.* 2*s.* of expenses.—T. Tennant Black, 11 Marchmont Road, Edinburgh, was charged with a similar offence, and pleaded not guilty. The case was continued for a week.

GOODWILL OF A CHEMIST'S BUSINESS.

At the Manchester Winter Assizes on March 9, before Mr. Justice Kennedy, without a jury, the case of Tomlinson *v.* Oldfield was heard. The plaintiff, a chemists' agent, sought to recover 61*l.* commission alleged to be owing to him from Herbert Oldfield, a chemist and druggist in Chesterfield, in respect of a valuation made of a chemist's business.

Mr. Shee, Q.C., and Mr. McKeand were counsel for the plaintiff, and Mr. Jordan appeared for the defendant, who had paid 41*l.* 12*s.* 6*d.* into Court in satisfaction of the claim.

The plaintiff's case was that in 1895 the defendant's premises were required by a new railway company, and that the plaintiff was engaged to make a valuation of the stock-in-trade, fixtures, and goodwill of the business. The net profits were represented to the plaintiff at 400*l.* per annum, and he valued the goodwill at 1,200*l.* The defendant contended that this was not a fair valuation, and said that one year's purchase was the usual and proper amount. It appeared that the railway company had given a lump sum for the premises, with the business stock, &c., and it was impossible to prove how much they had estimated the value of the goodwill, &c.

The plaintiff in cross-examination admitted that he had never previously valued a goodwill for a forced sale, but said he had had a large experience in valuing stocks and fixtures. In reply to his Lordship he said he was led to form his opinion of the value of this goodwill from the report of a similar case which appeared in The Chemist and Druggist some time since. His Lordship called for the report (which

related to the sale of the business of Wilcox & Co., Oxford Street, London, to the Central London Railway), and after reading it inquired if any expert evidence would be called in support of plaintiff's case. Mr. Shee replied that they had the identical expert employed in the case under notice.

Mr. Alfred Manners, of the firm of Judd & Manners, 76 Cannon Street, London, E.C., was called, and in reply to Mr. Shee said he had had considerable experience in valuing goodwills, as well as the stock in trade, &c., of chemists' businesses, and he had known of instances where the goodwill was worth even more than three years' purchase. In cross-examination he admitted that the majority of chemists' businesses would not be worth more than one year's purchase. Mr. Brett, of Leicester, gave evidence for the defendant, and Mr. Oldfield and his son also gave evidence. Ultimately his Lordship gave judgment for the plaintiff with costs.

Bankruptcies and Failures.

Re Percy John Otley, New Street, Burton-on-Trent, Chemist and Druggist.

Application for this bankrupt's discharge was made at the Burton-on-Trent County Court on the 3rd inst. The Court granted the discharge but suspended the order for three months.

Re Moses England, late of Great Mongeham, and now of Marriott Villa, St. Peter's, Isle of Thanet, Kent, Chemist.

The statement of affairs in this bankruptcy shows gross liabilities 164*l.* 14*s.* 3*d.*, of which 66*l.* 14*s.* 3*d.* is due to six unsecured creditors, and 99*l.* to one partly-secured creditor, the security being valued at 59*l.* The assets consist of 10*s.* cash at bankers, and book debts (doubtful, 18*s.* 6*d.*; bad, 22*l.* 10*s.*) estimated to realise nil. The Official Receiver says: "The bankrupt was formerly in the Army Medical Staff Corps, which he left in 1888, and took an agency in the Prudential Assurance Company, which he has since carried on. From 1890 to 1891 he states that he also carried on a small chemist's shop at Great Mongeham. He states that he has been aware of his insolvency for the past five months. The furniture upon the premises occupied by the bankrupt is claimed by his wife as having belonged to her prior to marriage, or since purchased by her out of her earnings as a lodging-house keeper. The bankrupt has not kept any books of account." The causes of failure given by debtor are: "Loss of 30*l.* by bad debts, payment of past debts, loss by selling articles under value to meet pressing engagements, illness of children."

Re George Handel Openshaw, lately carrying on business in partnership with James Booth, as Booth & Openshaw, at 7 Darwen Street, Blackburn, Chemist and Druggist.

This debtor was examined at Blackburn Bankruptcy Court on Wednesday. The summary of accounts showed gross liabilities 11,370*l.*, of which 5,620*l.* are expected to rank for dividend. The assets were put at 390*l.*, leaving a deficiency of 5,230*l.* The debtor attributed his failure to his building speculations having turned out badly, and to depreciation in property. The Official Receiver, in his "observations," said the examination had been adjourned *sine die* because the debtor went away and did not surrender. Openshaw joined Mr. Booth as partner about twenty years ago, but put no capital into the business. The partnership was dissolved in March last year, and Mr. Booth was a partly-secured creditor for 4,800*l.* The debtor admitted knowing three years ago that he was unable to pay his debts. Five unsecured debts, amounting to 1,451*l.* in all, were for money borrowed, and included a bankers' overdraft. The debtor was now represented by Mr. Broadbent, Mr. Carter appearing for the trustee (Mr. Thomas Hindle, of Darwen). In answer to the Official Receiver, the debtor said a debt of 2,400*l.* to Mr. Booth was fully secured upon two houses. The 4,800*l.* mentioned in his statement was the only debt connected with the partnership. The debtor admitted that as executor of a Mr. T. H. Dewhurst he had misapplied trust-money. After some questions the Official Receiver said: It comes to this, that you have managed to take 1,105*l.* out of it, not a copper of which belongs to you. The Debtor: That is so. As to getting so deeply in debt with his partner, the debtor explained that he used to draw on his profits, and when stock was taken it turned out that he had overdrawn his share of the profits. His building speculations hampered him a great deal in his drawings out of the partnership concern. Mr. Booth had every confidence in him, and knew about it at the time. The crisis came owing to the children of Mr. Dewhurst threatening to put him where they could find him. That did not suit him, and he went to America. As to his share dealings he lost 700*l.* in paper-mills, and 250*l.* in speculating on the Stock Exchange. Cross-examined by Mr. Carter, debtor said he put statements before Mr. Booth, from time to time, to satisfy him with regard to his (debtor's) building speculations. That was when he (Openshaw) was drawing amounts above his share of the profits, and it was to satisfy Mr. Booth as to the overdraft. He had drawn 6,888*l.* in eleven and a half years, but he insisted that that included interest and compound interest. He admitted that he had pledged the firm's credit for private debts, and that he had drawn cheques in favour of other persons and altered them "to bearer." He did this to deceive the bank, as he wanted to avoid them reporting the matter to Mr. Booth. He had told Mr. Booth that he thought the bank would demur to his drawing money in his own name. Mr. Booth was not a party to this "pious fraud" on the bank. The examination was adjourned, and the debtor was ordered to furnish a further and better deficiency-account.

Gazette.

PARTNERSHIPS DISSOLVED.

Dawson, W. J., Saunders, G. B., and **Todd, H.,** Newcastle-upon-Tyne, under the style of Dawson, Saunders & Todd, chemical and metal brokers and general merchants; so far as regards W. J. Dawson.

Meyer, J. A. E., and **Winstanley, T.,** Leeds, under the style of Meyer & Winstanley, herb-beer manufacturers.

Sarjeant, A., and **Howling, A. E.,** Watford, under the style of Sarjeant & Howling, chemists and druggists.

THE BANKRUPTCY ACTS, 1883 AND 1890.

ADJUDICATION.

Sharratt, Arthur, Derby, manufacturer of artificial teeth.

ORDER MADE ON APPLICATION FOR DISCHARGE.

The following amended notice is substituted for that published in the *London Gazette* of March 2, 1897:—

Morgan, Thomas Lloyd (carrying on business as Morgan & Francis), Carmarthen, as Morgan & Francis, aërated-water manufacturers, chemist and aërated-water manufacturer—discharge suspended for two years and three months ending January 16, 1899.

Deed of Arrangement.

Dixon, John Foster, 4 Gledhow Road and 54 Banside Street, Leeds, wholesale druggist. Trustee, George Fillingham, 16 East Parade, Leeds, accountant. Dated, February 27; filed, March 5. Liabilities unsecured, 431*l.* 12*s.* 8*d.*; estimated net assets, 392*l.* 10*s.* The following are scheduled as creditors:—

	£	s.	d.
Appleyard, G., Leeds	22	0	0
Eldison, G., Drighlington	10	0	0
Goodall, Backhouse & Co., Leeds	30	0	0
Hartley, Brewer & Co., Hull	12	0	0
Jackson, W. & H., Liverpool	17	0	0
Lorimer & Co., London	13	0	0
Midland Vinegar Company, Birmingham	74	0	0
Pulford, F., Hull	12	0	0
Swithenbank & Diggle, Leeds	21	0	0
Victoria Vinegar Company, Sheffield	12	0	0
Wilkinson, J. F., Manchester	18	0	0

GOLD MEDALS 1884-1885-1886-1888.

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Kingzett's Sulphur Candles and Sulphugators,
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Strengthens the Food.
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Makes the Children Grow.
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REDUCTION IN PRICE.

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Howards' Seidlitz Powder.
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PERFECTLY FOLDED
4/3 per Gross.
POWDERS.
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PERFECTED "GALEN"
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Elegant in appearance and shape. Free from taste or smell. Do not pit. Readily soluble. Quite full. Contents pure and of the highest quality.

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TEST IT FREE.
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MAY WE SEND YOU ONE

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With Orders of 1 gross 1s. Kure-Yu (20's) we will send you, this month, on receipt of cheque, Shop Clock *Free*, with 5,000 Illustrated Handbills, your name at foot, and carriage paid. 12,000 1s. Boxes Sold weekly. Terms—£5 5s. per gross; Discount 10%, and 5% monthly. Clocks despatched, your Name on Dial, 7 days after receipt of cheque. Further particulars free.
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Kure-Yu is oldest (1889), best got up, most Profitable of all.

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FARRINGDON ROAD, LONDON, E.C.

No. 1 Finest Pure CRUSHED LINSEED	16/ ✠ cwt.	Finest PURE STARCH POWDER	21/ ✠ cwt.
No. 2 Pure CRUSHED LINSEED	14/ ✠ cwt.	No. 1 Finest Light Pure PRECIPITATED CHALK	25/ ✠ cwt.
BEST CLEANED LINSEED	15/ ✠ cwt.	No. 2 Pure PRECIPITATED CHALK	21/ ✠ cwt.
No. 1 Finest Pure FULLER'S EARTH (Light Colour)	15/ ✠ cwt.	"WHITE EARTH" Specially prepared for Toilet purposes.	18/ ✠ cwt.
No. 2 Pure FULLER'S EARTH	13/ ✠ cwt.	Finest Pure Sifted TOILET OATMEAL	21/ ✠ cwt.
Pure LIQUORICE	/11 lb.	Best Pure ARROWROOT	/9 lb., in tins.

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Prepared and Bottled by the Actual Champagne Growers at Bouzy-Reims.
We supply elegantly embossed cartoons for Windows and Packing; also artistically executed Show Cards, free.
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"SOLEX COCA must in this respect be regarded as an ideal preparation, and like all the SOLEXA, it is accurately standardised. COCA WINE prepared from it has the true aroma and flavour of the leaf, and does not throw down the unsightly precipitate which has hitherto vexed the soul of the Coca Wine maker. MESSRS. FLETCHER, FLETCHER & CO. have probably a unique experience in the assay and treatment of Coca and its preparations."

SALE OF FOOD AND DRUGS ACT. PROPOSED AMENDMENT.

Mr. Kearley's Bill to consolidate and amend the law relating to the sale of food and drugs seems to be an attempt to carry out with thoroughness the recommendations of the committee of which he was a member. We have already indi-

ted a few of its principal features, but it is worthy of a oser analysis, especially as the drafting seems to have been a somewhat amateurish character. In the limits of this ticle we can only deal with a few of the more prominent roposals contained in the Bill.

First, we note that the definitions of both food and drugs re extended. The term "food" shall include, says the Bill, every article used for food or drink by man other than rugs or water"—so far it follows the existing definition—and any article intended to enter into or be used in the reparation of human food and flavouring-matters and condiments." This is intended to bring such substances as aking-powder under the control of the Act. The present lefinition of the term "drug" is that it "shall include nedicine for internal or external use." It is now proposed hat "the term 'drug' shall mean any substance, vegetable, nimal, or mineral, used in the composition or preparation of nedicines whether for external or internal use." This is ntended probably simply to reach such a vehicle as beeswax; but it might easily be strained so as to include the crude chemicals or drugs which it is economical to use in the laboratory of the manufacturing chemist or pharmacist, and, for anything we can see, to his instruments and apparatus.

The Bill proposes to largely increase the penalties which may be imposed under the Act, making, for instance, 5*l.* the minimum fine for any second, and 20*l.*, or not more than three months' imprisonment, for a third or subsequent offence. This is to be applied to the sale of substances not of the nature, substance, and quality, as well as to adulteration injurious to health. So that, for instance, a chemist who may have been convicted on perhaps quite a new point or on a questionable point of law (such as a milk-of-sulphur case, let us say) can never in future be subject to a fine of less than 5*l.*, though the second conviction may involve no more fraud than the first. In addition to fines or imprisonment, the Bill gives power to magistrates to order that any person convicted a second or any subsequent time under this Act shall affix a notice of the facts to his premises, and advertise the same in newspapers at his own cost. The working of the Act has revealed no such alarming public danger as is suggested by this almost panic-stricken vindictiveness, and we can perceive no reason for it, unless, indeed, it be a deep-laid design to bring the statute into disrepute.

The committee came to the conclusion that the difficulties in the way of taking samples for analysis from wholesale dealers were too great to be overcome in practice, and they decided that the unfairness of the Act in punishing the small trader and letting the real offender go scot-free would be met to a considerable extent by providing that invoices should be regarded as warranties, and by facilitating the application of the summons to the wholesaler. Mr. Kearley evidently does not admit the insuperability of the obstacles. He incorporates the invoice warranty into his Bill, and provides that a sample bought for analysis shall be divided into four portions, one of these being for the wholesale provider, in the event of the warranty-defence being relied upon. But he also proposes as follows (Clause 10):—

Any person who shall, whether as owner, consignor, or consignee, agent, or broker, be in possession or have the custody or control of any article of food or any drug so mixed, adulterated, impoverished, or altered that the sale thereof by retail without notice of such alteration would constitute an offence under this Act, shall be guilty of an offence under this Act.

Where any article is seized in course of transit under the powers of section seventeen [? s. 24] of this Act, such article shall be deemed to be in the possession of the owner or consignor thereof.

Provided that it shall be a good defence to any proceedings under this section to show that such article was not intended for sale by retail in such state as aforesaid without notice to the purchaser of such state.

We confess that we find it difficult to understand how this proposal can be effectively worked, much as we sympathise with the object in view. It is, however, provided by Clause 24 of the Bill that any inspector under the Act, or any medical officer of health, may

At all reasonable hours have access to all public or private sale-rooms occupied or used by merchants, brokers, wholesale dealers, or other persons, and to all public and private warehouses, factories, stores, quays, sheds, ships, or barges where food or drugs are offered for sale or deposited for the purpose of sale, and seize or procure samples of any such food or drugs.

He may also seize samples at any railway station, at any port, or elsewhere, and for the purpose of carrying out the Act may break open any parcel, box, barrel, bag, or other package in which food or drugs may be contained.

The only other clause of the Bill to which we can here refer is the one which creates a Board of Reference, a proposal on which the supporters of the Bill particularly plume themselves. This Board, it is proposed, shall consist of the principal officer of the Government Laboratory at Somerset House, while the Local Government Board, the Board of Agriculture, the General Medical Council, the Institute of Chemistry, the Pharmaceutical Society [*sic*: no indication is given as to which Pharmaceutical Society is intended], the London Chamber of Commerce, and the Association of Chambers of Commerce of the United Kingdom are each to nominate one, and the Society of Public Analysts two members each, all such nominations being subject to the approval of the Local Government Board. The persons so nominated are to have power to elect three other persons to act with them upon the said Board of Reference.

The members of the Board are to be paid such remuneration as may be approved by the Local Government Board, and they are to have power to make rules for the qualification of public analysts, to settle and appoint standards for the composition of manufactured foods and drugs, the amount of dilution which may be permitted (except as regards spirits, which is provided for by the Bill itself), the amount of deterioration or of addition which may be allowed, and requirements as to the wording of labels.

We cannot spare space just now to discuss this proposal so adequately as it deserves, but we may suggest two or three considerations. First, as to the constitution of the Board. This seems to us very anomalous. We do not see, to begin with, why the London Chamber of Commerce is to have as much representation as all the other Chambers put together; nor why, if the Pharmaceutical Society of Great Britain is intended in the clause, the Pharmaceutical Society of Ireland should be excluded; nor on what principle, if druggists are represented, grocers, milk-dealers, and bakers are to be refused a voice.

We quite agree that it is difficult and undesirable to fix standards by an inflexible statute; and the principle of appointing a representative Board to settle such questions is not in itself objectionable. But we cannot forget that this Board was suggested by the public analysts with the direct and immediate object of preventing as far as possible the unedifying spectacle of an analyst's certificate being contradicted by the chemists at Somerset House. The analysts have always resented the reference to Somerset House, and the consequent frequent suspicion thrown on their own competence. They would gladly have demanded that a committee of themselves should have been substituted as an appeal laboratory, but the evidence of the services rendered by Somerset House was too strong for them. So they

have fallen back on the attempt to control the official chemists by this Board of Reference. Retail traders will be very ill advised if for the sake of a nominal representation on that Board they surrender the advantage they now possess of being able to get an opinion concerning the goods they have sold which is absolutely uninfluenced by the desire to win a prosecution, a consideration which has never ceased to bias the work of public analysts.

A CHAPTER IN FINANCE.

"The examinations do not pay."—Mr. Martindale at the Pharmaceutical Council, March 3.

"From that day [1868] to this the revenue of the Society from this source has enormously overbalanced the administrative expenses contingent on the execution of the Statute. . . . We make the assertion without any fear of successful contradiction."—*C. & D.*, March 6.

Here are a negative and a positive, two statements so utterly at variance that one of them must be wrong. We believe it to be Mr. Martindale's, and we can only imagine that he allowed himself to speak without examining figures at all, for there is nothing in the Pharmaceutical Society's accounts since 1868 to justify even the hope that the examinations do not pay, and the history of the Society during that time has been a continuous demonstration of our assertion that the examinations have paid handsomely and are the main cause of the Society's enrichment and prosperity.

Let us go back to the beginning. The Society was founded in 1841, so that it was midway in its career when the Pharmacy Act of 1868 came into force. A happy coincidence, therefore, provides us with two equal periods of twenty-seven years, although we lack statistics for last year. During the first of these periods the Society succeeded in investing 2,890*l.* derived from life members' fees, and 4,600*l.* from the General Fund; there was besides 2,200*l.* in hand, altogether 9,690*l.* During the twenty-two years after 1868—*i.e.*, up to the end of 1890—a sum of 21,068*l.* had been added to the savings, but at the end of 1895 the sum had diminished to 18,926*l.* (and most of this sum was in unremunerative property). The first twenty-seven years' savings give an annual average of 346*l.*, and the next twenty-two years' average per year is 955*l.* This shows, at least, that the Society's business has been much more profitable since 1868 than it was before that time; and it is worth remembering that the Society had as many rich and clever business men to manage its affairs in its earlier days as it has now, so that the increased saving is not due to more careful management.

Where has this money come from? We shall show that it comes from the examinations chiefly.

In the year 1868 the Society had a revenue of 2,609*l.* from subscriptions, 235*l.* from interest, and 1,673*l.* from examination fees. Its expenditure on all heads did not absorb three-fourths of the income. The immediate effect of the Pharmacy Act was to give it a large accession of members, and an income (in 1869) of 3,714*l.* from that source, while examination and registration fees yielded no less than 4,548*l.* The general expenditure was well under the receipts from interest and subscriptions (exclusive of examination fees), and this happy condition continued more or less for a long time; indeed, it is only within the past decade that the Society has found it impossible to get along without appropriating the surplus from the examination fees. It is difficult for an outsider to say what proportions of the general expenditure should be allocated to the examinations and the Society respectively. We said last week one-half, and we still consider that to be far too liberal an estimate; but, as we desire to be scrupulously fair, we propose, in order to see what the Society's expenditure has been, to leave it at that, although up to 1890 the expenses which we thus debit to the Society in no year exceed the expense incurred by the Society on the same scores in 1868, when the membership was about half what it is now. The following are the totals:—

	£
Subscriptions and interest on investments, 1869 to 1895	144,071
Expenditure on behalf of the members	134,920
Saving	9,151

If instead of allowing half the expenditure as being for Society purposes, we took it for this estimate at the 1868 rate the whole of this saving would be wiped out. However, even at the above figure, it is evident that 12,000*l.* of the 21,068*l.* invested by the Council since 1868 must have come from the examination fees. Yet Mr. Martindale says the examinations do not pay! We confidently appeal to the drug-trade—those of it who are in the Society as well as those outside, since this is a matter which affects all—to do their utmost to frustrate the piece of jobbery whereby another five guineas would be extracted from each Minor candidate. The extravagance of the Council is the sole cause of the straitened circumstances that the Society finds itself in, and the expense of conducting the examinations has nothing whatever to do with it. Let the subjoined figures prove or disprove our assertion.

(*In.* = *income from interest and subscriptions*, *Ex.* = *expenditure on journal, school, research, library, museum, calendar, and one half of general expenses*):—

	1869	1870	1871	1872	1873	1874	1875	1876	1877
	£	£	£	£	£	£	£	£	£
In. ..	4,004	4,166	4,073	4,364	4,614	4,821	5,122	5,101	5,231
Ex. ..	2,247	4,759	3,375	3,652	4,851	5,195	4,367	4,275	3,831

	1878	1879	1880	1881	1882	1883	1884	1885	1886
	£	£	£	£	£	£	£	£	£
In. ..	5,337	5,487	5,535	5,502	5,453	5,613	5,649	5,658	5,622
Ex. ..	4,501	4,339	5,632	4,605	4,558	4,686	5,201	5,217	5,365

	1887	1888	1889	1890	1891	1892	1893	1894	1895
	£	£	£	£	£	£	£	£	£
In. ..	5,503	5,269	4,977	4,818	4,863	5,633	5,309	5,297	5,272
Ex. ..	5,941	6,086	5,690	6,536	7,426	6,857	6,977	8,314	9,586

What these figures show is that until 1886 the Society's expenditure for general purposes was generally well under its income, the receipts and costs of examinations both being eliminated.

It was in the middle of 1882 that Mr. Carteighe entered on his fourteen years' reign as President. He soon changed the tendency; the record of 1887–95 speaks for itself. The profits from the Society's business and those from the examinations have been wiped out; the whole of the realisable investments, except ground-rents and bricks and mortar, have been sold out; and the Council have now begun to borrow from the bank. Six years ago the pressure of financial difficulty began to make itself felt. The Privy Council at that time authorised the increase of the Minor fee from 3*l.* 3*s.* to 5*l.* 5*s.* It was supposed that the new Examination Hall and the improved system of examination warranted that increase; that, in fact, it was needed. But having thus secured from the new candidates an additional 2,000*l.* or 3,000*l.* of annual income, the Council launched out into a journalistic enterprise of considerable magnitude. It aimed to add to the features of its own journal the characteristics of a trade newspaper. The additional income provided by the increased fees was soon swallowed up, and the result has been, financially at any rate, a fiasco. Absolute bankruptcy is well in sight, and the trade-journal competition can only be maintained if some additional source of income can be

secured. This we assert is the true reason for this demand for a subsidy of 5,000*l.* a year.

It seems incredible that a body of business men can have persuaded themselves that a qualification which paid them well at 3*l.* 3*s.* in 1890, and costs them but a trifle more now, will be assessed by the State at 10*l.* 10*s.* before the century closes. The Council say they have provided new examination-halls, &c. They have, but these have been built with money which is mainly the surplus from examinations, and as there is still 353*l* a year of interest (there was only 235*l.* in 1868) the Society has these premises practically rent free. It is, therefore, a pretence to say that the increased accommodation merits an increased "Minor" fee. In spite of the enlarged examination the expenses have not greatly increased. In 1889 the examination receipts were 5,867*l.* and the expenditure 3,059*l.*, and in 1895 the receipts were 8,740*l.* and the expenditure 3,428*l.* For the whole Pharmacy Act period the figures are as follows:—

	£	s.	d.
Revenue from examinations, 1869–1895	150,775	0	0
Cost of conducting same as per financial statements ...	63,668	0	0
Surplus to meet other contingent expenditure ...	87,107	0	0

An average of £3,226 per annum gross profit.

Can any member of the Council repeat, with these figures before him, that the examinations do not pay? We do not overlook the fact that the Preliminary examination contributes a large share of this surplus, but we have yet to learn that that examination is not a part of the qualifying examination mentioned in the Pharmacy Act, and the fees derived from it must be regarded as a contribution to the expenses of qualification. That is to say, at present the total fees for examination and registration as a chemist and druggist are 7*l.* 7*s.*, and the Pharmaceutical Council desire to make them 12*l.* 12*s.*, while the Society of Apothecaries charge but 15*l.* 15*s.* for the five (nominally three) examinations for their registrable medical qualification, and the Royal College of Surgeons 10*l.* for their L.D.S. It may also be noted that the total fees for B.Sc. of the London University are 12*l.* for the three examinations—viz., (1) Matriculation, 2*l.*; (2) Intermediate, 5*l* ; and (3) B.Sc. examination, 5*l.*; and for each of the three examinations in medicine for M.B. (Lond.) the fee is only 5*l.* The total fees for M.B. (Oxon) are 14*l.* There is still much to be said on this subject; we wish to show especially how the Council have drifted into lines of extraordinary expenditure, which they have utterly failed to minimise by legitimate means, but that must remain for another article. Meanwhile, we urge all members of the trade, and especially local pharmaceutical associations, to give this matter serious attention. The Pharmaceutical Council deplores that the trade does not support it; as a matter of fact, the trade contributes one-half of the money needed at the present time to pay for the privileges reserved exclusively for the Society's members, and the Council now wants the trade to contribute two-thirds. A more iniquitous demand has never been made in the history of pharmacy.

JAPANESE GOVERNMENT LABORATORIES.

Through the courtesy of Mr. Yoshizumi Tahara, Director of the Imperial Hygienic Laboratory of Yokohama, we have received a copy of an interesting leaflet giving an account of the history and sphere of work of this and other kindred Japanese laboratories.

After the signing of the commercial treaties of 1869 and 1870, which threw open a large number of Japanese ports to European and American trade, foreign drugs and chemicals were among the first alien products that sought a market in Japan. The Japanese Government in those days were by no means so enamoured of Western ideas as they have since become. The treaties had been wrung from them at the cannon's mouth, and they were not particularly disposed to assist the Western races in making Japan the dumping-ground of foreign surplus-production. In 1873 they therefore established, as a branch of the Department of Education, a Medical Bureau, to supply information concerning the quality of imported medicines. In the following year the bureau organised, at Tokio, a *Shiyakujo*, or Institute of Pharmacy, for the purpose of protecting the public from being deceived with spurious, adulterated, or inferior medicines.

From this Institute sprang the system of rigorous testing of all foreign pharmaceutical articles which has made Japan the most exacting market in the world in respect to the quality of imported drugs, and the tests of the Pharmacopœia Japonica the severest of any. It is often alleged that the examination of foreign drugs at the Custom-houses in Japan is carried on in a spirit of carping pedantry, and that the whole system is a bad one; but, be that as it may, the Japanese themselves appear to be so satisfied with it that, far from wanting to give it up, they are extending the practice of compulsory examination to other departments.

The first director of the Tokio *Shiyakujo* was Mr. Nagamatsu, but the Japanese Government felt that, in dealing with foreign goods, they had better have a European chemist for an adviser. Such a one was secured in the person of Dr. G. Martin, a German, and thenceforth the chief post of each new *Shiyakujo* established was given to a foreigner—in every instance, with the exception of Dr. Martin, a Dutchman. There were several reasons for selecting men of this nation. In the first place, Holland had been for over two centuries the only European country permitted to trade with Japan; in the second, the foreign drugs and medicines which came into Japan under the new *régime* were the produce of most leading commercial nations except Holland; thirdly, it was the Dutch who had originally introduced European medicines into Japan, and taught Western medical science there. The appointment of Dutchmen, therefore, was least likely to give rise to allegations of national prejudice against the examiners. At the present time Japan has enough trained chemists of her own to do without foreigners of any kind, and the Dutchmen have received their walking-papers.

By 1875, when three *Shiyakujo* had been established, the Medical Bureau with its appanages was transferred from the Education to the Home Department, and re-christened "Central Sanitary Bureau." It was then also provided that all medicines of European character, whether imported or home-made, might, after examination at a *Shiyakujo*, be sealed with a Government stamp "as proof of their fitness for use." This regulation is still in force, and it is asserted that it has worked "most beneficially in maintaining supplies of trustworthy medicines in all shops throughout the country." In 1882 the Institutes were subdivided into an analytical and pharmaceutical section, and their scope was greatly enlarged. The pharmaceutical section, in addition to the examination of medicines, was empowered to take up the examination of new therapeutic agents and of the active constituents of Japanese and Chinese drugs. The analytical section occupied itself with the examination of air, water, soils, foods, beverages, mineral waters, clothing-materials, dyes, pigments, &c., and with chemical matters relating to

jurisprudence. In 1886 a museum was opened in connection with the Tokio Institute.

The growing work of the institutes (the old name of *Shiyakujo* has been abolished in favour of the more comprehensive one of *Eiseikyoku Shikenjo*) is shown by the subjoined figures relating to applications for the examination of medicines, &c. :—

Year	In the Pharmaceutical Section				In the Analytical Section			
	Tokio	Osaka	Yokohama	Total	Tokio	Osaka	Yokohama	Total
1893 ..	597	3,373	2,043	6,013	250	269	677	1,196
1894 ..	619	3,792	2,289	6,700	276	404	393	1,073
1895 ..	1,068	3,235	2,783	7,079	337	547	499	1,383

The number of packages submitted to the laboratories for stamping with the official seal is also steadily increasing, as the following table shows :—

Year	Stamped				Rejected			
	Tokio	Osaka	Yokohama	Total	Tokio	Osaka	Yokahama	Total
1893 ..	72,870	460,186	339,377	872,433	5,666	44,736	9,337	59,739
1894 ..	77,475	460,803	361,172	899,450	5,275	51,788	5,503	62,566
1895 ..	139,801	463,415	521,868	1,122,733	14,161	39,388	9,828	63,277

The total proportion of rejections, it will be seen, is very small. In 1893 and 1894 it was just 7 per cent.; in 1895 only 5½ per cent. It is doubtful whether, if similar tests were applied to pharmaceutical goods imported and sold in any other country, the percentage of rejections would not be much larger. The regulation of the Hygienic Laboratories has already extended beyond Japan, for applications for examination are now regularly received from Hong-Kong, and occasionally even from Siberia.

The staff of the three laboratories now in operation consists of three directors, six chemists, four probationary chemists, seventeen assistant chemists, and seven clerks. The scale of charges is extremely moderate. The fee for examining the "fitness for medical use" of an article is half a yen (about a shilling). The Government stamp costs 2*s.* for each packet. The analytical section charges from 2½*d.* to 2*s.* for a simple examination of an article of food or drink, and from 1*s.* to 10*s.* for the quantitative analysis of the same. The same charges apply to chemical and technical products and raw materials, but for metals and minerals the figures are about twice as high.

A GERMAN APOTHEKER ON SOUTH AFRICAN PHARMACY.

A certain Herr O. Kalt-Reulcaux, whom we presume to be a pharmacist, has been good enough to enlighten his German fellow-countrymen, in the columns of the *Pharmaceutische Zeitung*, on the prospects offered to German pharmacists in the Dutch Republics of South Africa—the Transvaal and the Orange Free State. The Herr's object is, in itself, praiseworthy, but we may take exception to the manner in which, *more Germanico*, he proceeds to belittle the worth of his British colleagues of the craft for the purpose of exalting the knowledge and "conscientiousness" of his own fellow-countrymen. We cannot profess greatly to deplore the Herr's concluding advice to Germans *not* to emigrate to South Africa, but we fail to see any warrant for the comments with which he adorns his conclusions. Says the Herr :—

Under no circumstances can I advise emigration to the Transvaal . . . especially because within measurable time England, *per fas aut nefas*, will incorporate the Boer-Republics into her World-Empire, and will then set afoot an unendurable systematic moral baiting against the hated Germans. Even to-day English capital and English energy hold the balance, and can ruin the Germans by boycotting them.

It is not our fault that the Germans are not more popular abroad (their national habit of slighting the intelligence and honesty of all other people may account for it), but if any "systematic moral baiting" has ever been applied to them in British countries, those Germans that have once emigrated thither seem, at any rate, to suffer that baiting cheerfully rather than return to the Fatherland. About his English-speaking fellow-craftsmen the Herr has many kindly things to say :—

The colleagues of no other nation can compare with the German pharmacists in respect to general, scientific, and technical training, or in respect to conscientiousness. The deeply-ingrafted sense of professional dignity inherent into the German apotheker prevents him from sinking down to the level of the common quack occupied by the British "druggist" (as the pharmacist of the Island-Empire is dubbed in popular parlance). But this public recognition of the knowledge and trustworthiness of the German apotheker does not always spell pecuniary success, for in the colonies, even more than in Europe, folk flock towards the mountebank. If the German pharmacist means to hold to the high principles he has carried from his Fatherland, he will no doubt gain much appreciation beyond the seas, but only little worldly goods. To obtain the last-named he must howl with the [British] wolves, and try to vend patent medicines by pompous advertisement.

But there is balm in Gilead for the tender-conscienced Herr, for he gives the novel information that German apothekers are in request in the South African Republics for the purpose of giving medical advice to customers, "as everyone knows that they have had a university training in pharmacy, and have not, like their British and colonial colleagues, been grounded anyhow behind the counter." Hence many South African chemists are said to be in the habit of advertising that their dispensing department is under the control of an examined German pharmacist.

Our friend the examined German pharmacist, it would seem, is a sort of milch-cow of the counter-trained, unscrupulous, ignorant, unexamined British or Colonial "colleague." The Britisher or Colonial owns the shop, and he keeps the German universal-knowledge man as a sort of caged monstrosity of learning to give medical tips, a system which does not seem to hurt the German's professional dignity in the least. If this sort of information is accepted by the university-trained readers of the *Pharmaceutische Zeitung* as a true picture of South African pharmacy, we sincerely wish them a little less book-learning and a little more experience of the golden tree of practical life.

Here are some other bits of Herr Rhadamantus-Reuleaux's wisdom :—

The craft of pharmacy is only very loosely regulated in the South African Republics, as well as in Cape Colony and Natal. In the principal towns, Bloemfontein, Heidelberg, Johannesburg, Kustenburg (*sic!*), Pretoria, Middelburg, &c., are several pharmacies, so-called "Drnggist Stores" (*sic!*), who, although they dispense prescriptions, do the bulk of their business in American or English patent medicines. Besides this the "apotheker" sells aërated waters of his own manufacture, bandages, surgical instruments and appliances, medicinal wines, microscopes, thermometers, all sorts of rubber goods, eau-de-Cologne, soaps and scents. F. Soul, in Johannesburg, even keeps a depôt of chocolate goods.

These facts distress our high professional critic sorely, and we gather that he also disapproves of business in travellers'

medicine-chests, whether allopathic or homœopathic, which form one of the most profitable branches of the business. "Every Boer farm, every gold-digger's hut, contains such a medicine-case—a handsome box, chiefly filled with patent medicines. The pharmacist's profit on the sale of such a box is from 150 to 200 per cent." (*sic!*).

Dispensing, we are informed, is but a poor business for the chemist, as most medical men do their own—"a practice," Herr Reuleaux amiably adds, "for which they cannot be blamed, especially the conscientious ones [Herr Reuleaux's conscience is decidedly the heaviest part of his mental equipment], because most of the pharmacists are 'merely druggists.'"

As for salaries, they are high in comparison with those in Europe, but the cost of living is proportionately higher still. Some of the despised "druggists" pay 20*l.* a month to an assistant; the Transvaal Coal Trust Company and Colonel Ferreira's Gold Mining Company even pay their pharmacists 30*l.* a month, but for this pay the chemist must also act as medical man to the coloured labourers. But what avails all this in a country where Lagerbeer is 3*s.* 6*d.* a bottle and "undrinkable" Johannesburg beer 6*d.* a glass?

How matters have gone in South Africa since Herr Reuleaux ceased to lie abroad for his country's good we can only conjecture. While he was there, there was at any rate one man who held the bridge against ignorance and could be trusted to do counter-prescribing without endangering patients' lives. And counter-prescribing (according to the Herr) is the rule, because the fee for medical consultation is half-a-guinea at the doctor's house and a guinea at the patient's. Hence the British "druggist" keeps on his premises a learned German university "pharmacist," who gives the customers "medical advice" for which the employer charges 2*s.* 6*d.* to 5*s.*, without reckoning his fee for dispensing the apotheker's prescription. Truly it is a sad business, and we are glad that Herr O. Kalt-Reuleaux has returned to Germany with, we trust, an unimpaired virginity of conscience.

THE POSITION OF RHUBARB.

For the past two months there has been a gradual, although slow, advance in the price of rhubarb. Good qualities especially have been in demand, but the public auctions have afforded but little sound well-dried root. The bulk of the rhubarb now in stock in London is, in fact, of poor appearance and more or less worm-eaten—a result, partly, of prolonged storage necessitated by the difficulty of effecting sales which has been experienced for the past few years, and partly by the absence of care taken in China in drying and harvesting the root The Chinese merchants, having overstocked the European markets for several years with low-grade rhubarb, have ended by complaining that they can no longer make a profit on the article, and the European shippers in Shanghai, after having systematically cultivated direct relations with wholesale druggists on the Continent and in America, profess themselves dissatisfied because the article is no longer so readily saleable in London as it used to be. The fault, however, does not lie with the London merchants. If one persists in selling to his chief client's customers behind his back, one has no right to reproach the said client because his account is no longer so large as it used to be. In spite of the growing tendency to pass by the middleman, however, London continues to be the principal rhubarb-market of the world, and there is no evidence that her proportion of the total trade has fallen off within the past few years. Take, for instance, the exports of rhubarb from Shanghai, the Chinese shipping-port, from 1890 to 1896. The figures are as follows:—

To		1896	1895	1894	1893	1892	1891	1890
London	piculs	933	1,675	2,304	2,282	2,492	1,768	1,435
Continent ..	"	1,004	902	623	462	779	352	603
U.S.A.	"	367	421	165	726	760	750	588
Total	piculs	2,304	2,998	3,092	3,470	4,031	2,370	2,626
Percentage to London ..		40·5	55·8	74·3	65·8	61·8	53·5	54·6

The great decline of direct shipments to London last year is accounted for by the fact that our market, all through 1896, was particularly dull, and that an unusually large quantity of rhubarb (1,979 piculs) was sent from Shanghai to Hong-Kong for reshipment, and was probably mostly forwarded to England from the last-named port. The export figures which we give above indicate that there has been a noteworthy falling-off in the production of rhubarb within the past decade, for in 1885 and 1886 (both years of heavy crops, it is true) the exports from China amounted to 7,282 and 6,324 piculs respectively. Whether the consumption of rhubarb is on the decrease is a question more difficult to answer. The tendency of modern medication is, upon the whole, unfavourable to the old vegetable standard drugs, but rhubarb is such a special and well-established favourite that an exception may perhaps be made in its case.

But our business at present is with the future rather than the past. We are now at the beginning of the new rhubarb "season," and the general question is, "Are we going to see high prices for the drug this summer?" In a measure the present prices, for good quality at any rate, *are* already high. At last week's auctions extreme figures were asked for the only consignment of really good Shensi rhubarb offered, and since then a considerable portion of the parcel in question has been sold, partly for export, partly for home consumption, at the rate of 3*s.* per lb. for medium sound Shensi, and at 4*s.* per lb. for fine druggist's root. Considering that root similar to the 3*s.* grade sold last year at about 1*s.* 8*d.* per lb., there would seem to be comparatively small room for a further large advance. The future of the drug now depends entirely upon the shipments from China within the next four or five months. Since the beginning of 1897 the shipments from Shanghai are believed to have been small, but the first quarter of the year is always the least important so far as the rhubarb exports are concerned.

The new "Canton" root usually begins to arrive at the port of Shanghai from the growing districts in Sze-chuen and Shan-si in March or April; it is followed by the inferior kiln or "high" dried root at an interval of about six weeks. Of "Shensi"-root, the most valuable kind there is said to be no regular crop, but the bulk is received shortly after the Canton variety. Rhubarb continues to be received in Shanghai until September, when the season draws to a close. Native reports will have it that this year the crop of Canton rhubarb will not exceed 300 piculs, whereas an average yield would give about 700 piculs. But native reports are proverbially unreliable. With regard to rhubarb, they seem to have been inaccurate since 1890, when a poor crop was predicted and the prediction came true. In the summer of that year good Shensi rhubarb realised 4*s.* 6*d.* per lb. on the London market. Ever since then the value of rhubarb has been on the decline, and the complaint of the Chinese growers and shippers, that the article has ceased to pay, appears to be a plausible one. It must be added, however, that fine qualities of rhubarb have of recent years always

realised prices out of proportion to the common bulk of the crop. There is always a market, and a remunerative market, for high-class goods of whatever kind, and the moral seems to be that it would pay the Chinaman better to devote more care to the preparation of his goods than to send them over in the ill-cured condition that has been usual with him lately.

CHLOROFORM ANÆSTHESIA.

The record of fatalities in England alone since the year began is worse than last year. Here are the figures for the first two months, founded upon coroners' inquests:—

January, 1896 ..	5 deaths	..	1897 ..	6 deaths
February, 1896 ..	2 deaths	..	1897 ..	6 deaths
	7			12

How long is this sort of thing to go on? It seems to us that coroners might be more precise in their inquiries, especially ascertaining what provision there has been to give the patients air, and what quantity of chloroform was given in a specified time. There can be no other cause of death under chloroform in persons with sound hearts than too little air or too much chloroform, either cause being easily avoidable.

THE MIDWIVES' REGISTRATION BILL.

The jealous opposition of a large section of the medical profession to the Bill now before Parliament under the above title has been previously alluded to in these columns. It is shown to be utterly unworthy of a profession which professes to serve the public, by a letter in the *Times* last week from "A. Mabel Bruce, Hon. Secretary of the Association for Promoting Compulsory Registration of Midwives." "This is not," Mrs. Bruce remarks, "a question of midwife *versus* doctor. The greater number of births among the poor are now, for better or worse, attended by midwives and not by medical practitioners. The object of the Bill is simply to insure that the women who assume the name of midwife shall have some knowledge to fit them for their work. The object of registration is to furnish a test that a midwife can safely conduct ordinary cases of childbirth, will be able to recognise symptoms of danger, and know when to send for medical aid." Mrs. Bruce affirms that England is the only country in Europe where midwives are absolutely unrestrained. Dr. Rentoul and his coadjutors will find it difficult to persuade the Legislature that their opposition to this measure has any other motive than a self-interested one.

THE ATTFIELD TESTIMONIAL.

The support extended to the committee who propose to honour Dr. John Attfield for his services to pharmacy as a teacher at the Square school during thirty-four years, is greater than was ever anticipated. Already, we believe, between 400 and 500 old students have sent in their names, and it is surprising how widely the genial doctor's influence has been felt. At least two peers of this realm have asked to be allowed to put their names in the album, and baronets and knights have written in similar strain—the veteran Sir Douglas Maclagan amongst them. From the Continent have come a number of charming letters from professors and pharmacy leaders; and Professor Remington leads the way for Americans—Mr. E. H. Gane, of McKesson & Robbins, New York, is acting as local secretary for U.S.A.—a pretty extensive territory he covers. We may make it plain to all engaged in pharmacy that the part of the testimonial which is likely to be most appreciated will be the album of names, because it is hoped that it will contain the names of persons who feel that they have benefited through Dr. Attfield's work and writings. We suggest that any who read this paragraph should (be they young or old) send a postcard to Mr. John Moss, 39 Tressillian Road, St. John's, London, S.E.

KOCH AND THE RINDERPEST.

The latest reports which Dr. R. Koch has made to the Secretary of Agriculture at Cape Town show that his experiments on the rinderpest have been attended with a certain amount of success. He has not obtained a prophylactic serum which confers more than temporary immunity, but he finds that the blood serum of cattle which have recovered from the disease mixed with virulent rinderpest blood does confer immunity of a permanent nature. He does not say in what proportions the blood and serum are used, but 20 c.c. is the dose of the mixture. A more important observation is that a hypodermic injection of 10 c.c. of the bile of an animal which has succumbed to rinderpest, is a perfect prophylactic. Even four weeks after the bile injection has been given 40 c.c. of virulent blood (enough to kill 20,000 cattle) produces no injury. The local result of an injection is merely a hard, somewhat painful swelling of the size of a man's fist, which gradually disappears in the course of a few weeks—providing, however, that the bile is not in a state of decomposition, as is not uncommon when an animal suffers from rinderpest. Under such circumstances an abscess may form. Dr. Koch is convinced that rinderpest can be eradicated with but little difficulty and within a comparatively short time by means of either of these injections. He says the protective properties of the bile will be of inestimable service in infected parts. Nearly every case of rinderpest supplies a greater or lesser quantity of vaccine for those animals which are still healthy. He offers to instruct veterinary surgeons and other persons fitted for such work in the methods of treatment, and urges upon the Government the establishment in other parts of the country of branch stations of the Central Laboratory in Kimberley, where the investigations have been carried out.

COLOUR-PHOTOGRAPHY.

We seem to be making advance in this line. At a meeting of the Camera Club, on Monday night, Mr. Wallace Bennetto showed a number of pictures made by his process, and explained that, while he is not at liberty to give information as to the nature of his process, he could say that there is no resemblance whatever between his process and that of the French inventor. "There is no monochrome whatever in my photographs," said Mr. Bennetto; "the colours are produced by the action of light on chemical substances. I think I am in a position to tell you that I can produce, or shall very soon produce, enlargements that are as perfect as the small photographs." He added that the correct reproduction of the colours depends on correct exposure and development of the negative, and the after-results depend, in a similar manner to those of the ordinary print, on treatment—if they are over-printed they will not get correct colour. His colour-photographs have been subjected to very severe tests, and he believes they were absolutely permanent. In connection with this reference to Chassagne's pictures, we observe in the *Amateur Photographer* a free criticism of the French pictures by Mr. T. C. Hepworth, F.C.S., who examined them with a powerful lens. We quote a few sentences from Mr. Hepworth's article:—

> In most of the portraits the figures and dresses are coloured, but *the monochrome background is untouched*. . . . In one portrait—that of a child, in a lavender dress, standing on a chair—the colour of the dress overlaps the white-feather trimming. . . . With regard to the landscapes . . . the trees and grass are bathed in one uniform tint of green and, *mirabile dictu*, the sky is *white!* In another picture we see a number of red brick buildings . . . the roseate tint is also washed over the sky. . . . In another place a red wall has a bill affixed to it, and in like manner the colour has invaded the paper. The blue sky in another picture has strayed over the chimney-pots, roof, and everything near it. . . . Careful examination shows many spots

where the colour overlaps in this way, and others which are left entirely bare of colour. If the selective absorption theory be correct, why these blots and blemishes?

We may mention, as a curious coincidence, that we have seen similar effects to these produced by children with a sixpenny box of water-colours.

Random Readings.

Modern Litigation.

The trial in "Saxlehner *v.* the Apollinaris Company" (remarks the *Times*) lasted six days; it is clear that, in the view of the Judge, it might have been over in a third of the time. Unfortunately this is no exceptional experience. All sense of proportion is lost sight of; a system of competition in regard to the volume of evidence goes on; armies of heavily-fee'd experts are arrayed against other armies, also heavily-fee'd; the obvious becomes obscure, the obscure becomes darkness tangible long before the inquiry ends. "The evil to which I am referring," says the Judge, "has been especially noticeable, and has again and again been noticed in patent cases; and litigation such as this, though not concerned with a patent, belongs to the same class. . . Unless judges and counsel co-operate to keep the evidence in this class of case within narrower limits, they threaten to become a scandal, fraught with danger alike to those for whom and by whom justice is administered." These emphatic words are not too strong; they repeat what others, with no less experience than Mr. Justice Kekewich, have before said. But who is chiefly responsible for this overlabouring of points, this multiplication of witnesses, and this accumulation of paid advocates termed experts? Whose province is it to see that the evidence offered is not irrelevant or redundant. Under other systems of procedure than ours there is a powerful check on the evil against which Mr. Justice Kekewich protests; the experts are the organs not of the parties, but of the Court; the suitors cannot call such number as the length of their purses or the patience of the tribunal permits. But with us it is always open to a judge to condemn this practice at the beginning or in the course of the case, and not merely at the end, when the mischief is done.

Fighting the Dentists.

The *British Journal of Dental Science* mocks at us as follows:—The Chemist and Druggist a short time ago opened a campaign for the purpose of testing in the High Court "some suitable case which should authoritatively establish the right of chemists to undertake such dental work as it had been the custom of a large proportion of the trade for generations to fulfil, providing that no misleading description indicative of special qualification had been adopted." For this purpose our contemporary invited subscriptions. To this appeal the response was seemingly very modest. A letter was then sent to the Honorary Secretary of the British Dental Association, asking if that body would be willing to agree with The Chemist and Druggist's committee for a case to be submitted for argument to the High Court. This proposal was brought before the executive of the Association, and was politely declined. At this we are not surprised, as the request seems to us a particularly cool one. Our contemporary cannot go to much expense, and will not take a case appearing before magistrates, but "a really suitable case might still be carried to the High Court." We think the difficulty will be to find a "really suitable case."

"Truth" on Pharmaceutical Qualifications.

Truth this week refers once more, but this time with "fear and trembling," to the question of the validity of the Irish pharmaceutical qualification in Great Britain. The gentleman whose case originally provoked discussion tells *Truth* that

when he started in business in England he was not in the least aware that he was breaking the law and placing himself at the mercy of the Pharmaceutical Society of Great Britain; and he has been absolutely ruined for no reason but ignorance of the law. His case is the harder inasmuch as, in addition to his Irish qualifications, this unfortunate chemist had held an official appointment at one of the Dublin hospitals, and been for a long time Lecturer on Practical Pharmacy at the Ledwich School of Medicine, so that he must be taken to have been an exceptionally well-qualified man. He asks why, if it is necessary for the safety of the public in Great Britain that he should be precluded from dispensing drugs over here, he should be free to practise in the same way upon her Majesty's subjects in Ireland?

That question, *Truth* thinks, requires some better answer than has yet been given. The answer is simple enough. It is the will of the Legislature. The editor of *Truth* was himself, we presume, a member of the Legislature which created the condition of which he now complains. Is it our fault if great statesmen like himself will not give attention to these minor matters when they are brought before them?

A Medical Journal's Law.

The *British Medical Journal* is hitting rather wildly when it suggests that the chemist who sold a "cough, fever, and bronchitis mixture" was infringing not only the Medicine-stamp Act, but also the Apothecaries Act. The apothecaries themselves will probably resent the insinuation that to sell secret medicines is "to act and practise as an apothecary"; while the Board of Inland Revenue would probably smile collectively if they knew that their Act was complimented as being one "for the protection of the public from unqualified practice of medicine."

Pork and Professionalism.

The following advertisement is cut from the *Portsmouth Evening News* of March 1:—

FREE Medical Attendance and Medicine.—Having succeeded in engaging the services of an eminent and very successful Professional Gentleman, I offer the above to all my Customers. John Andrews, Wholesale and Retail Provision and Potato Merchant, Lincoln Road, Fratton.

This suggests a promising opening for enterprising "professional gentlemen." Will not one of our Portsmouth readers ascertain for us how much cheese or potatoes must be bought to entitle the purchaser to a course of medical treatment for typhoid, say?

How it Grows.

The *Financial Chronicle* of February 25 has got hold of the report of the negotiations at Birmingham which we mentioned a fortnight ago, and magnifies the story to the following:—"All the largest chemist shops in Birmingham have been purchased by a syndicate, and will shortly be floated." A few of them, we believe, may be trusted to hold by their anchors yet awhile.

The Missing Thrill.

The scrappy penny journals seem rather fond of articles which give chemists' experiences. *Answers*, of March 6, gives "A Chemist's Thrilling Stories of Narrow Escapes from Poisoning." The stories are not very exciting; the thrill is almost imperceptible. There is first an account of a drunken man who took carbolic acid, and was cured by an emetic; secondly, of a love-sick young woman who was supplied by a suspicious chemist with a solution of burnt sugar in place of laudanum. She took it after writing an explanatory farewell-letter to her father, and the chemist says he had just dispensed some teething-powders for her second baby. The third story is of a drunken man who

wanted a draught of prussic acid, and was supplied with 6 drops of raspberry vinegar.

Tricks of the Trade.

Cassell's Saturday Journal, of March 6, professess to reveal some "dodges in the drug-trade." "Dummies" are the staple of the article—dummy specialities, dummy drawers, dummy stock-bottles, with their Latin labels. We learn something from this writer. Homœopathic chemists, he tells us, colour their tinctures with burnt sugar, &c., because if they do not do this customers grumble at having to give a shilling for a bottle of stuff that looks and tastes like water. This is news to us. So is the story of the chemist who made his powdered aniseed, caraway, coriander, and fœnugreek from linseed-powder, with the addition of a little of the essential oil.

Painless Strychnine Poisoning.

The *Rocket* of February 18, 1897, has an article entitled "A Professional Pet-poisoner." It professes to give the experience of a West-end chemist in the poisoning of cats, a large number of which, he states, are brought to him for that purpose. "The process of despatch is very simple," he tells the *Rocket* writer. "I use a strong solution of strychnine, a drop of which is injected into the mouth of the animal. No pain is suffered, and death takes place instantly."

Pearson on Poisons.

Pearson's Weekly of February 27, in an article entitled "Can't the State Prevent Suicide?" offers the following sapient observation:—

> Carbolic acid, for instance—at the moment perhaps the favourite poison, although it is the most painful in its operation—is so universally employed for ordinary disinfecting-purposes that to limit its sale to the order of a physician would seem like putting a tax on so necessary a germicide.

Note how misleading this way of putting the case is. Who ever proposed limiting the sale of carbolic acid to physicians' orders?

The Opium Stories.

A writer in *Success* could put the Pharmaceutical Society on to a good thing in the way of unregistered vendors of poisons. With a wild grab at the Pharmacy Act, he says:—

> Although it is practically illegal for any chemist to sell more than a prescribed quantity of opium to any one person, hundreds of people purchase and consume the drug with impunity. There are shops, other than chemists, where opium may be obtained in almost any quantity, and the proprietors of these places do a quiet, steady trade with scores of customers weekly. A friend of the writer was in one of these shops the other day, when a wretchedly emaciated man tottered feebly in, threw sixpence on the counter without a word, and received in return a small, mysterious package, which he pocketed in haste and departed.

Then follow the usual stock-tales about preachers whose brilliant sermons and authors whose powerful stories are delivered or produced under the influence of the drug. One lovely little fiction is that

> One chemist in London has confessed to selling as much as ten pounds' worth of the drug in a week to the servants of West-end ladies, many of whom consume it freely as an alleged aid to beauty and a charm for care.

Westminster Wisdom.

The Verminous Persons Bill.

The second reading of Mr. Hazell's Bill to enable Local Authorities to make provision for cleansing and disinfecting persons infested with vermin has been put down for Friday, April 2.

The Petroleum Committee.

The re-appointed Petroleum Committee held its first meeting on Friday, and elected Mr. Mundella as chairman. As the Committee considers that a sufficiency of scientific evidence has been placed before it as to the explosive properties of petroleum and the requirements of storage, it was decided next to inquire into the question of lamps.

Still under Consideration.

On Monday Mr. Kearley again questioned the Government as to whether they had come to any decision as to the introduction this Session of a Bill to carry out the recommendations of the Select Committee on the Adulteration of Foods and Drugs. The only reply that he could extract from Mr. Balfour was that the methods which should be adopted to carry the recommendations of the Committee into effect were under consideration.

The Merchandise Marks Act.

The following are the names of the members of the Select Committee on the Merchandise Marks Act, 1887, which has been nominated on the motion of Sir Albert Rollit, with the approval of the President of the Board of Trade:—Mr. Cayzer, Sir Jas. Fergusson, Mr. Howard, Major Jameson, Mr. Wm. Jones, Mr. Legh, Mr. McGhee, Mr. Mildmay, Mr. Mundella, Mr. Chas. Murray, Sir Albert Rollit, Mr. Spencer, Sir Howard Vincent, Mr. Chas. Wilson, Mr. John Wilson (Govan), and Mr. Wodehouse.

Income-tax Returns.

Some facts of peculiar interest to employers came out the other evening in the House of Commons. Mr. Kearley asked what was the object of certain instructions on Income-tax Form No. 8—"List of all persons employed"—to be delivered under penalties by persons employing others, whether by weekly wages or otherwise. In particular he asked what was the meaning of the note stating that the penalty was not incurred by the omission to include in the list persons whose *total incomes* individually did not exceed 160*l.* a year? Were employers expected to question all servants and workmen not returned for as to their private means—*i.e.*, their sources of income apart from the wages which the said employers paid? If not, would the Chancellor of the Exchequer cause the wording of the instructions to be altered? In his reply the Chancellor of the Exchequer indicated that section 50 of the Act 5 and 6 Vict. cap. 35 authorised the issue of the form. He added the following important statement:—"I am unable to agree with the hon. member that the responsibility of the employer is limited as he suggests. It seems to me that the law requires that if the employer wishes to omit from the list the name of any person in his employ he should use reasonable means to satisfy himself that the person is entitled to exemption from income-tax."

One-man Companies.

On Thursday last week, Mr. Lewis (Flint Boroughs) questioned the Attorney-General concerning the recent case of a company, consisting practically of a single individual, formed by him to take over his own business, and through which he continued to trade for his own benefit under limited liability, and to the judgment of the House of Lords (reversing that of the Court of Appeal), in which it was held that debentures issued to himself were validly secured upon goods supplied to the company by ordinary trade creditors, which had not been paid for, and took priority in the distribution of the company's assets over the claims of the creditors who had supplied them. Mr. Lewis asked whether seeing that such cases were of frequent occurrence, the Government would take immediate steps to check the abuses thence arising. The Attorney-General said: "I am fully alive to the necessity that exists for an amendment of the law in relation to trading companies. I would point out to the hon. member that a Bill has already been introduced in the House of Lords by the Board of Trade and is now before the Standing Committee on Law, which will give an opportunity of dealing with the matters to which the question refers." Sir W. Hart Dyke, who apparently did not realise the importance of the question raised, interposed a rather foolish question intimating that he was thinking of forming himself into a Light Railway Company, and asked if he was likely to be harshly dealt with. There was a momentary laughter, which, however, was turned against the joker when the Attorney-General replied that he did not see any connection between this question and that in reference to debentures which Mr. Lewis had raised.

Novelties.

This issue of The Chemist and Druggist is bigger than usual, because numbers of it are going to all the Merchant Shippers of the United Kingdom who ship druggists' goods. Regular readers will, therefore, observe certain special features in the Advertisement Section, and they may take it that the firms who solicit export trade are quite as willing to do new home business. It will pay to examine the advertisements with exceptional care; there are many new things mentioned—new terms, and so on—which deserve attention. Only a few of these have come directly under our notice in the shape of samples, and we describe them in the subjoined notes.

THE "EVERFAST" TOOTH-BRUSH.

This is stocked by all the sundries' houses, and can be ordered through any firm. The makers supply wholesale buyers only. The peculiarity of the brush—the point of superiority over ordinary tooth brushes—is that a hole is drilled from the side under each row of bristles, and the bristles are thus thoroughly secured transversely. The "Everfast" cement is inserted in these side holes, as well as longitudinally, and effectually secures the knots of the fasteners as well as the bristles. A brush of great strength is thus produced—one that wears to the bone. A novelty such as this gives a fillip to the tooth-brush department, and customers will appreciate the improvement if it is brought under their notice. The brush is made in sizes suitable for women, men, and children.

NON-EXCISABLE COCA-WINE.

The production of a coca-wine so truly medicated that the Excise authorities do not regard it as a beverage is one of the easiest things in the world, but to make one palatable at the same time is the difficulty Messrs. John Moss & Co., of the Galen Works, New Cross, S.E., have surmounted. We have had the opportunity of trying the wiue, and, apart from a slightly more pronounced flavour of coca than there is in the non-excisable article, we cannot say that there is any characteristic about it which would militate against its legitimate use as a medicinal tonic-wine. The article is put up in elegant style, as will be seen from the engraving of a bottle annexed to this paragraph. The label is printed in colours—rather elegantly done, we think. One feature about this new wine which retailers will be glad to hear of is that the makers have resolved to protect the price. Thus, the half-crown size is fixed at a minimum 2*s.* 3*d.*, this being a sop to the popular desire for a reduction, while it leaves a margin for booking.

BIPALATINOIDS.

At an annual exhibition some time ago Mr. William Oppenheimer, of Oppenheimer, Son & Co. (Limited), Worship Street, E.C., exhibited some palatinoids containing a dry powder in one half and a liquid in the other. It was intended as a "sporting" example of the capabilities of the process, and it had not struck Mr. Oppenheimer that there was any business in the idea. A few doctors soon convinced him to the contrary by asking bipalatinoids of guaiacol and hypophosphites to be made in that way. These we noticed at the time Now we have before us this prototype and some others which are real marvels of the pharmaceutic art. Take Bland's pill with creosote as an example. One half of this is filled with creosote, which shows no tendency to exude into the other half. It is this other half which astonishes us, for it is divided into two sections, one above the other, the lower part of it containing dried ferrous sulphate and the upper sodium carbonate. This is cleverly done. Several new combinations made after this fashion, such as creosote with an antacid powder, a combination which is, *e.g.*, useful in the dyspepsia of phthisis, have recently been added to the list.

ALLCOCK'S WITH THE P.A.T.A.

A new announcement in reference to the price of Allcock's plasters appears this week. The maker's price for the 7½*d.* size will henceforth be 5*s.* 6*d.* to 5*s.* 9*d.* per dozen, according to quantity purchased, and they will be on the P.A.T.A. list with a minimum retail price of 7*d.*

SOUP IN A MOMENT.

Messrs. E. Lazenby & Son have put on the market an assortment of "Solidified Soup Squares," including all the usual varieties. Each square contains the soluble parts of 1½ lb. of beef, freed from fat and bone, with sufficient vegetables and flavouring ingredients, and makes very readily 1½ pint of soup. The squares are put up in one-dozen boxes, assorted kinds, and look very attractive. They retail at 6*d.* per packet. The made soups are excellent.

HYGIENE AT A LOW FIGURE.

By this we mean that Messrs. Southall Brothers & Barclay, of Birmingham, with their new sanitary towel at 6*d.* a packet of twelve, have brought this most useful and cleanly appliance within the reach of the million. A special feature about the new towel is its remarkable absorptive capacity—a property due to the fact that the fabric of which the towels are made is a combination of cellulose and "dimatos," the extremely light infusorial earth which the firm introduced about a year ago. The fabric is not the least dusty on this account, and the towel is remarkably light, considering its high absorptive capacity. There appears to us to be a great future for this towel amongst the working-classes, and as, practically, a new trade will be created, chemists should see that they get a share of it.

NEW TOILET PREPARATIONS.

Messrs. Moise & Marshall (Limited), of 9 Butler Street, Milton Street, E.C., have struck out a somewhat new line in chemists' perfumery. They are putting up a set of toilet-preparations, such as cold cream, glycerine-and-honey jelly, hamamelis cream, perolyta jelly (a complexion preparation), vaseline, and various tooth-pastes, in collapsible enamelled tubes, delicately tinted and gilt labelled. These are put up for sale as 6*d.* and 1*s.* articles, and for a very moderate order the firm will supply the articles, with labels bearing the retail vendor's name. Besides these Messrs. Moise & Marshall are supplying a lot of new perfumes packed in elegant cartons. The Highland Heather perfume is their leading article, and they have also a series of "white" scents, such as white gardenia, white lilac, white rose, white violet, &c.

FROM THE SUNNY SOUTH.

An exceptionally good liquorice-juice is now being offered to the trade by Messrs. S. M. Fraukenstein & Co., of New Broad Street, E.C. It is the S. Franco brand, is of Italian make, and is moulded in 4½'s and 8's to the pound. The same firm are agents for Chuit & Naef's artificial perfumes, including such standard odours as vanillin and heliotropin. There is a tendency to adulterate such artificial perfumes with acetanilide, but we cannot detect that im-

purity in the C. & N. samples. Their heliotropol strikes us as an odour which should find many uses by chemists—for example, in toilet-powders, sachets, and handkerchief-perfumes. It seems to have a "rounder" odour than heliotropin—in fact, its odour is *sui generis*. The essential oils, extraits, and similar natural perfumes which Messrs. Frankenstein stock are those of Veraldi, of Cannes, and both in variety and strength we find these to merit attention. The No. 24 Forget-me-not is an azure-tinted fluid of fine aroma, and the pink peach-blossom is also nice. Messrs. Frankenstein offer these extraits, as well as essential oils, &c., in bulk quantities.

KURE-YU.

This is a headache and neuralgia cure in the form of powders, introduced by Mr. A. Bernard Slack in 1889, and now being more widely made known, both to the public and the drug-trade. The inducement which the makers—Messrs. Bridgwater's (Limited), chemists, West Bromwich—offer is a novel one. With each gross of the powders (1*s*. boxes), costing 5*l*. 5*s*., the firm send a handsome eight-day clock, 17½ inches diameter and 12-inch dial, the letters on which are raised gold; so that, in addition to the 50 per cent. profit, the retailer has a reliable timekeeper, guaranteed for five years. "Kure-Yu" is put up in boxes containing twenty powders, each dozen boxes being mounted on a striking card ("Many Eyes"), which has a double row of pretty blue eyes round the margin. The same design is followed in the handbills. We may add that the clock has the retailer's name put upon it, and there is an advertisement of "Kure-Yu" round the margin. Those who wish to get one should write to Bridgwater's (Limited) for further particulars; but all the leading houses supply the speciality, and the South African agent is Mr. J. T. Sanders, Pietermaritzburg, Natal.

WHITE AND YELLOW WAX.

The fact that beeswax, both yellow and white, is now liable to adulteration is well known to the drug-trade, and no excuse is required for bringing under notice a make of refined wax which can be relied upon for genuineness and purity—viz., that of the Wax-bleaching Works, Lüneburg, near Hamburg. In a conversation which we had with a representative of the firm during a recent visit to London we learnt that they have been engaged for many years in wax-refining, and at the present time no less than a million kilos. are dealt with annually. The wax is not "made in Germany," but the supplies are drawn from the best sources of wax all over the world, and at the Lüneburg works undergo the clarifying process which is absolutely necessary to fit even the best wax for pharmaceutical purposes. The notable thing about the process is that it does not affect the natural characteristics in the least, the colour of the product being good, and the fine natural wax odour is unimpaired. The wax agrees with Pharmacopœial characters, and we have failed to detect any impurity in it. This also applies to the bleached or white wax, which is quite free from paraffin, and has the true odour of the unbleached variety without a trace of rancidity. The quotations for both kinds are low, and the makers can supply either kind in any form desired, a shilling or two per cwt. sufficing to cover the cost of production in smaller cakes than 1 lb. Large users of wax will find it of advantage to get samples and quotations from the works, but retail quantities should be obtained through the wholesale houses.

THE SUFFERING WHOLESALERS.

The booking-fees of the carrying companies are a thorn in the flesh to the London wholesale sundries and patent-medicine houses. The usual custom is for the wholesale firm to pay the 2*d*. on parcels of the value of 10*s*. and upwards. Messrs. May, Roberts & Co. have prepared a circular to their customers, announcing that for the future they must charge the fee on every contract parcel irrespective of value. "This system of sending daily orders for trifles is becoming a serious tax on us," said Mr. Roberts to a *C. & D.* representative. " could show you hundreds of them. Look! here is one for one-sixth of a dozen of Valentine's meat-juice, and sufficient Swiss condensed milk to make up the weight. That was one-third of a dozen of the milk. Our profit on the order was under 3*d*., out of which we had to pay ½*d*. for postage of invoice." Then he detailed the process through which such an order has to go, and our representative's sympathetic soul was quite harrowed once more in wondering how those wholesale sufferers get a living at all.

New Companies and Company News.

Cyprus Trading Company (Limited).—Capital 30,000*l*., in 1*l*. shares. Objects: To carry on the business of general import and export merchants, manufacturers of locust-bean syrup and grape-must, sponge-merchants, wine and spirit merchants, &c.

London Glucose Company (Limited).—Capital 5,000*l*., in 1*l*. shares. Objects: To acquire the businesses of the London Glucose Company and Paul Windmuller & Co., and to carry on the business of importing, exporting, and dealing in glucose and other kinds of produce.

F. Butterfield (Limited).—Capital 3,000*l*., in 1*l*. shares. Objects: To acquire and carry on the business of an extractor of teeth and maker and fitter of artificial teeth carried on by Fred. Butterfield, at 6 King Street, Oldham. The said vendor is the permanent managing director.

Midland Acetylene (Parent) Syndicate (Limited).—Capital 50,000*l*., in 1*l*. shares. Objects: To establish companies and associations for the manufacture of calcium carbide, and of acetylene gas, benzine, alcohol, &c. The first directors are:—G. Antoine, F. H. Haviland, F. W. Ramsay, and G. V. Mitchell. Registered office, The Works, Congreaves Road, Cradley Heath, Staffs.

Kolawitch Company (Limited).—Capital 4,200*l*., in 1*l*, shares. Objects: To enter into an agreement with Mr. F. W. Brooksbank and William H. Blackburn to prepare, manufacture, sell, and deal in the preparation known as "Kolawitch," and to carry on the business of chemists, druggists, dealers in chemical, industrial, and other preparations, and makers of and dealers in proprietary articles. None of the subscribers are connected with the trade. Registered without articles of association. Registered office, Bentiuck Buildings, Wheeler Gate, Nottingham.

Rowntree & Co. (Limited).—Capital 300,000*l*., in 15,000 preference, 14,980 ordinary, and 200 deferred shares of 10*l*. each. Objects: To acquire and carry on the business of manufacturers of and dealers in cocoa, chocolate, and confectionery, carried on in York and elsewhere as "H. I. Rowntree & Co.," and to enter into an agreement with Joseph Rowntree. The first directors are:—Joseph Rowntree, John W. Rowntree, Benjamin S. Rowntree, Francis H. Rowntree, Arnold S. Rowntree, and John B. Morrell. Qualification, 1,000*l*. Remuneration, as the company may decide. Registered office, Cocoa Works, Haxby Road, York.

Apollinaris and Johannis (Limited).—Capital 2,380,000*l*., in 10*l*. shares (of which 119,000 are preference). Objects: To enter into certain agreements, which are not described, and to carry on the business of owners, lessees, or concessionnaires of mineral springs, importers, exporters, and manufacturers of mineral and aërated waters, bottle-makers, bottlers, licensed victuallers and dealers in articles sold by licensed victuallers, chemists, and grocers. The first directors (to number not fewer than three nor more than seven) are Frederick Gordon (President, with 750*l*. per annum), Julius Prince (Vice-President), Viscount Duncannon, C.B., J. Lawson Johnston, John H. Tod, and Albert R.

Holland. Qualification, 100 shares. Remuneration, 500*l.* each per annum.

Vinolia.—The rumour is again circulated, and we believe this time with a solid foundation, that the conversion of the Vinolia business into a limited company is contemplated. The now familiar "million" is stated to be the proposed capital; but we have reason to believe that the English business will first be offered by itself at a smaller figure.

Rosbach Springs.—The report of the directors of Rosbach Springs for a period embracing nominally seventeen months, from August 1, 1895, to December 31, 1896, shows a marked improvement over the preceding year, the increase being as much as 160 per cent. The profit and loss statement shows a credit of 221*l.*, which is carried to the account of the current year. In view of the material augmentation in the sales as mentioned above, an improvement which is fully maintained to date, the directors are satisfied with the future prospects of the company, and have every confidence as to the ultimate results.

Apollinaris and Johannis (Limited).—The prospectus of this new company, which is an amalgamation of two well-known companies dealing in table-waters, is published in full in our Supplement this day. Some particulars of the registration of the company are also given previously. The vastness of the enterprise will perhaps come as a surprise even to many who were well aware that the Apollinaris Company had created an exceptionally successful business. That company has hitherto been a private one, and its accounts have not been previously made public. It now appears that the sales of Apollinaris water, which were 1,798,550 bottles in 1874, have steadily increased, almost year by year, until in 1895 they reached the magnificent total of 19,526,290 bottles, and yielded a profit to the London and to the German Company (both of which are included in the sale) of 157,016*l.* 3*s.* 5*d.* Two of the most famous firms of accountants in London certify that the sales and profits for 1896 have exceeded the figures given for 1895. According to the last published accounts of Johannis (Limited), the profits of that company amounted to 14,286*l.* 3*s.*, and the sales in 1896 were 4,270,713 bottles (793,739 more than in 1895). The purchase-price is 3,230,000*l.*, and the capital offered for subscription (except so much as is reserved for the vendors) is divided into 119,000 ordinary shares of 10*l.* each, 119,000 5 per cent. cumulative preference shares of 10*l.* each, and 850,000*l.* in 4 per cent. debenture stock. It will be noticed that Mr. Julius C. Prince, who has been for many years a director and general manager of the Apollinaris Company, will be managing director of the new company, and that the board includes experienced men of business whose names are associated with some of the most successful enterprises of the day.

The Therapeutics of Emergencies.

By H. Macnaughton-Jones, M.D., F.R.C.P.E and I., &c.

II.—*Practical Applications.*

SUBJOINED are the more important matters dealt with by the author in his lecture to the Chemists' Assistants' Association on February 18. The whole of this part of the lecture has been revised by Dr. Macnaughton-Jones, and was to be issued to the members of the Association this week. Others desirous of getting copies of the lecture should communicate with Mr. William Moore, 111 Temple Chambers, E.C.

Injuries to the Eye.

Foreign Bodies.—To evert the eyelid, place the person opposite you, lay the forefinger (left for the right eye and *vice versâ*) on the closed upper lid, directing the patient to look down; now slip the edge of the thumb under the margin of the lid, seize it firmly but gently, and turn it over on its cartilage—or a stout probe or a thin pen-handle may be used to turn it over on. Use a magnet for steel particles resting on the cornea; any imbedded particles do not interfere with; temporarily use the same means as in abrasions and occlude the eye. A camel's-hair pencil, wet with a little boric water, may be used to wipe a loose particle of dust off the cornea. Examine the eye through an ordinary lens; if no particle is seen, place the person opposite a good light and evert the upper eyelid with the finger and thumb and search for it. If found it is easily removed with the camel's-hair pencil or the pointed portion of a soft handkerchief. After removal drop in castor oil and cocaine.

Heat and Cold.—Be careful in advising the application of heat or cold to an eye. Either agent is at times a powerful remedy, and as a rule should be left entirely to the discretion of a doctor.

More Serious Injuries, such as wounds with scissors, stab of knife, gunshot injuries, portions of broken glass, &c.—There should be no interference without the advice of a surgeon, but if there be unavoidable delay in his coming the eye may be occluded lightly, and a drop of 1-per-cent. solution of atropine placed in it, and a shade may be made to cover both eyes.

Injuries to the Ear.

Any serious injury to the ear from blows or other accident should not be interfered with. Any bleeding from the outer passage of the ear is always a serious indication.

Foreign Bodies in the Auditory Passage.—No matter what may be the nature of the foreign body, never attempt to extract it with any instrument. Gentle syringing only is permissible.

Insects in the Auditory Passage.—Drop some warm oil into the ear, and afterwards syringe gently with a warm solution of carbonate of soda.

Violent Earache.—In all cases of aural neuralgia, or earache, the pharmacist should not accept any responsibility. In children such a symptom may be the forerunner of most dangerous brain trouble, and at all times may be indicative of abscess and middle ear inflammation. Temporarily, warm laudanum fomentations, or carefully-strained poppy water may be used, and no harm can be done by dropping in a little 10-per-cent. solution of cocaine in glycerine to try to relieve pain

Poulticing and Syringing.—Never advise the poulticing of an ear. It should be remembered that syringing frequently is the source of mischief and danger. Even in the simple removal of wax this is the case; inasmuch as the syringing is often continued after the ceruminous grub is washed away, so that the exposed drum is subjected to the force of the water. At other times the ear is dangerously syringed when there is no wax present. On the whole, the syringing of the ear should devolve on the surgeon alone, or be done under his direction.

The Nose.

Foreign Bodies.—Do not interfere by any efforts of extraction with foreign bodies in the nose. They are liable to be pushed up or further back, and to become lodged out of sight. Let a doctor see the case.

Bleeding.—In old people and in patients who are bleeders it may be most difficult to arrest bleeding, and finally the posterior nasal apertures may have to be plugged. It is safer, therefore, to accept no responsibility in such cases. In ordinary bleeding from the nose, a cold key, a stone, or some ice wrapped in lint protective, placed on the nape of the neck, will frequently, by reflex action, arrest it. Small plugs of lint moistened with equal parts of tincture of matico and liquid extract of hydrastis, in which a little tannic acid is suspended, may be pushed up the nostrils; but in any case of persistent bleeding medical assistance should be had.

Mouth and Throat.

Foreign Bodies.—If a fish-bone or other foreign body is stuck in the fauces, and within reach of the finger, it may be hooked up with the latter. If a piece of meat or soft substance be stuck in the gullet, an extemporised probang may be made with a piece of flexible cane or stiff whalebone, to the notched end of which a piece of wadded leather is firmly tied, and the soft morsel may be pushed on into the stomach. Hard or angular substances should not be interfered with; leave them to the surgeon.

Accidents to the Jaw.—If the lower jaw be broken it will greatly relieve pain and distress to support it by a pocket-handkerchief folded triangular-wise and tied over the head, or by a four-tailed bandage, which is crossed and tied over

the vertex and behind the ears. Should the jaw be dislocated, as in excessive yawning, it may be returned by placing the thumbs wrapped in a pocket-handkerchief or towel, over the molar teeth at either side, and while depressing the bone with these, raising it into position with the fingers, which are carried under the sides of the jaw.

Wounds.

The Scalp.—Cut the surrounding hair, wash the wound carefully with carbolised water from any dirt or particles that may be in it, put on a pad of wet boric lint, and send the case to a doctor.

Palm of Hand.—Take a cork. roll some lint round it, place it in the centre of the palm, and bind the hand over it with a bandage.

Blood-vessel.—If the vessel can be compressed, cut a round piece of cork, cover it with lint, and place it over the bleeding-point. Lay over this pieces of lint, of gradually increasing size, and secure this cone-shaped pad with a bandage, and send for medical assistance immediately. If the wounded vessel be in the flexure of a joint, as in the knee, groin, or elbow, place a pad over it and strongly flex the limb, keeping it in this position until assistance be secured.

Throat.—Send for medical aid immediately, and in the meantime keep the head well bent on the chest.

Abdomen.—The great danger is shock. Let medical aid be had without delay. If severe shock be imminent, use restorative measures, such as a little brandy by mouth and rectum, ammonia to the nostrils, or 30 minims of sulphuric ether given subcutaneously.

Testicle.—Kicks, or other injuries, are apt to be followed by shock; also hæmorrhage may take place into the scrotum. In the case of shock use restorative measures, keep cold to the part, suspend the testicle in the following manner:—Carry a bandage or long pocket-handkerchief round the waist; take another large pocket-handkerchief folded triangular-wise, and carry the base of the handkerchief well under the scrotum, two corners being brought underneath the waistband; tie these and the third corner together.

Bite from a Rabid Dog.

If the bitten person be brought to a pharmacy, the first step is to ascertain the evidence on which the animal is suspected to be mad, and if symptoms of rabies have been present. Should this be so, send immediately for a surgeon. Only under exceptional circumstances should the pharmacist do anything to the bite beyond thoroughly cleansing the wound, and the frequent application of hot water to it. To this latter may be added mercuric perchloride, making the strength of the solution 1 in 1,000. Should any time unavoidably elapse before a doctor can arrive, it is better to cauterise the wound by dipping a pointed stick into fuming nitric acid and carrying it deeply into each tooth-hole. Let a veterinary surgeon at once see the dog, and take the responsibility of its destruction.

Syncope.

To treat syncope of the ordinary kind, such as fainting, lay the patient on the back, elevate the legs, use strong ammonia to the nostrils, loosen all clothing, apply friction to the chest-wall, flick it with the corner of a wet towel, sprinkle water on the face, and make the patient swallow a little sal volatile or brandy. In more serious syncope from shock resort to artificial respiration, give a subcutaneous injection of ether, and in extreme cases a subcutaneous injection made from a strychnine tabloid dissolved in water.

Hæmoptysis and Hæmatemesis.

In cases of sudden rupture of a lung blood-vessel (hæmoptysis), while waiting for the doctor, lay the person down, give a little ice to suck, and some sips of a mixture of gallic acid and liquid extract of ergot until the doctor arrives. In the instance of rupture of a gastric vessel (hæmatemesis) and vomiting of blood send immediately for medical aid. After the blood has been gulped up, wait a little, and then give a dose of gallic acid with hazeline. In neither case assume any further responsibility.

Black, the discoverer of carbonic-acid gas, was the first to use the balance in chemical analysis.

Chemical Society.

There was a somewhat full meeting when the President took the chair last week. After the formal business of minutes had been gone through, Mr. Cassal rose to inquire if the name of a candidate had been omitted from the ballot-paper. He was informed that the certificate had been held back for further consideration.

The first paper was on

Some Hydrocarbons from American Petroleum.

This was the first part of a research by Professor Sydney Young, D.Sc., and Mr. G. L. Thomas, B.Sc., and dealt with normal and isopentanes, which pentanes were separated, by fractional distillation, from the "pentane" supplied by Merck, of Darmstadt. This substance, which is obtained by the distillation of American petroleum, is a complex mixture of butanes, pentanes, and hexanes, with some benzene and a little hexanaphthene.

Professor Young had succeeded in separating them readily by means of an ingenious regulated-temperature still head and a fractional column, which he described and exhibited. He put on the board figures showing a very close agreement in boiling-point, density, and critical constants between isopentanes prepared synthetically and by distillation. The boiling-points under normal pressure are:—Isopentane, 27·95°; normal pentane, 36·3°. The specific gravities at 0° are:—Isopentane, 0·63930; normal pentane, 0·64539.

The second paper, also by Professor Young, was purely physical. It dealt with "The Vapour Pressures, Specific Volumes, and Critical Constants of Normal Pentane; with a Note on the Critical Point," and the observations seemed from the figures placed before the Society to have been taken with a high degree of accuracy.

In the discussion which followed Professor Young suffered many things at the hands of Professor Armstrong, who refused to believe that any method of distillation would yield a pure substance from a mixture like Merck's "pentane." Dr. Thorpe not only threw doubt on the distilled isopentane, but on that prepared from amyl alcohol, and laid great stress on the evidence of viscosity experiments as a test of the purity of a material.

Professor Young replied with spirit, and carried the feelings of the meeting with him.

A paper was read by Mr. McConnell on

The Oxides of Cobalt and the Cobalites.

Briefly, it was an explanation of the phenomena brought before the Society some weeks ago by Mr. Durrant, showing that cobalt forms an oxide, CoO_2, and an acid, H_2CoO_3, which have hitherto been looked on as hypothetical, and alkali salts, K_2OCoO_2, very analogous to manganous acid and the manganites. Mr. McConnell considered it very improbable that the reaction will be of use in separating nickel from cobalt.

The hour was now late, but a few minutes were spared for a paper by Mr. Fenton, of Cambridge, on

A New Synthesis in the Sugar Group.

The acid obtained by oxidation of tartaric acid in presence of iron decomposes on heating with water into glycollic-aldehyde and CO_2. The aldehyde, when heated *in vacuo*, condenses, yielding a sweet-tasting solid gum of the formula $C_6H_{12}O_6$, with most of the properties of a sugar but optically inactive, and not, as far as yet known, capable of fermentation by yeast.

The conditions under which tartaric acid may be converted into dihydroxymaleic acid by atmospheric oxygen show close analogies with essential conditions of vegetable growth; and Mr. Fenton suggested that the direct production of a "sugar" in the manner above indicated may possibly help to throw light upon the natural formation of carbyhydrates.

The Ballot

resulted in the election of fifty-seven Fellows, amongst them the following gentlemen connected with pharmacy:—Messrs. John Barclay, B.Sc., Alfred Foster Cholerton (A. de St. Dalmas & Co.), and Ernest Goulding.

VOL. III. **The Public Ledger.** Number 875.

London, THURSDAY, October 7, 1762. [Price Two-pence Half-penny.

WHEREAS a Meeting of the Merchants of London was Yesterday advertised for This Evening, at the KING's ARMS Tavern in Cornhill, in order to consider of an Address to His Majesty, this is to give Notice that the said Meeting is postponed.

Whitehall, 7 — 1760.

HAVING seen — bic

For Disorders of the Stomach and Bowels.

HIS MAJESTY having, in Consideration of the *Extraordinary Virtues* of the STOMACHIC LOZENGES in curing the Disorders of the *Stomach* and *Bowels*, been pleased to grant his ROYAL LETTERS PATENT for the same; Notice is hereby given, that any Person counterfeiting the same, will be prosecuted with the utmost Severity.

The — Lozenges are now well known by — Remedy, in the

When the late Emperor of Russia surrendered himself to his wife, who came Amazon-like, at the head of 10,000 men to demand his resignation, he was immediately confined, and all visitors denied admittance to his person.

When he found there were no hopes left for his liberty, he requested two things to be allowed him; one was, that he might have the Prussian uniform, the other that a very favourite — a Ne — whose name was Urov — Km — and crying transgressions.—He told me, he could not hope for forgiveness from that great, and good Being, whose laws he had lived in constant disobedience to, and whose holy name he had so often blasphemed. He was very free and open in confessing the principal wicked transactions of his life; but expressed a particular horror at the following circumstance, which must be allowed to be in its nature truly diabolical. He belonged to a club, (he said) held at a house not many — distant — Holborn, which now sub- — for no other — last-

"THE *Times*, of course," nine out of ten people would answer, if asked to name the oldest existing daily paper in London. They would be wrong; but they might be excused for never having heard of *The Public Ledger*, for that which journal might have been a power in the world of commerce, has preferred unassuming dignity as a Mincing Lane paper pure and simple. *The Public Ledger* is probably the only daily paper in the world that never contains a word of comment on the great questions of the hour. The wave of London business-life surging round its offices leaves no mark upon its page beyond the prices of tea, sugar, and the like. Some years ago Mr. Chamberlain was wont to garnish his speeches with quotations from a "*Public Ledger*"—alas, it was the Philadelphian one! Even so versatile a man as the Secretary of State for the Colonies would be puzzled to cull a striking sentence (we will not say a witty one) from the modern London journal of the name. He would sooner find one in *Bradshaw*. But it was not always thus. *The Public Ledger* has a past; let us add (lest thoughts of Mrs. Ponderbury should arise) that the statement conveys no hint of impropriety. On the contrary, the *Ledger's* past is one to be proud of. "We too were Trojans" might be put over the journal's portal. They were Trojans of the Press, the gentlemen of *The Public Ledger* of seven-score years ago, and a Trojan of English Letters, Oliver Goldsmith himself, was one of the foremost among them.

GOLDSMITH AND THE "LEDGER."

A daily paper is only worth reading when it is less than twenty-four hours or more than a century old, and we confess that we have rarely read a copy of the *Public Ledger* with greater interest than that of which the title appears at the head of this article. That copy is probably the oldest in existence. There are some numbers of eighteenth-century issues of the journal in the Guildhall Library, others in the British Museum, but none of so early a date as October 7, 1762. Even in those days, when only two years old, the *Public Ledger* was what it remains to-day, the medium employed by produce-brokers to call attention to goods entrusted to them for sale. But it was something besides. Oliver Goldsmith, professional hack-writer though he was when chance threw him on the staff of the new City paper, could not have failed to throw lustre on its pages. Moreover, the founder of the journal, John Newbery, the clever bookseller at the sign of the Bible and Sun, in St. Paul's Churchyard, aimed at making it not only a commercial journal, but a journal of letters and fashion. And, although the old copy above referred to contains nothing that can for certain be identified as Goldsmith's writing, its letterpress is suffused with a literary style strangely contrasting with the severely prosaic contents of its descendant.

PATENT-MEDICINE ADVERTISEMENTS.

In the eighteenth century booksellers were the chief distributors of patent medicines, and it is therefore natural that John Newbery's name should occur repeatedly in the old copy as that of the authorised vendor of certain nostrums advertised in its columns. Most patent medicines mentioned in the *Ledger* of 1762 have long ago ceased to benefit mankind. The trade-list of F. Newbery & Sons, of Newgate Street, the direct descendants of the bookseller, knows them no more. The announcements are few, and artless. The executors of the late Joshua Ward warn the public against a woman servant who has decamped with a formula of Mr. Ward's nostrum, and Mr. Woodward gives an account of his cure for rupture. Mr. Woodward's advertisement was certainly not revised by Goldsmith. It contains a sentence of 236 words. Mr. Thomas Greenough, apothecary and patentee of a

Whitehall, July 11, 1760.

HAVING seen in the Public Papers that a Woman Servant, discharged from my Service, advertises herself as late my Housekeeper, and Assistant in preparing Medicines.—It's a Justice I owe the Public and myself, to declare, That this Woman was hired, and lived with me as, and at the Wages of a Common Working Servant, keeping no other.—And as to what Knowledge she may have in preparing my Medicines, every Livery Servant of my Family may, with the same Propriety pretend to it, as being all Assistants to me, by their Manual Labour.

Signed, JOSHUA WARD.

tooth-tincture, has left a more enduring name in the history of patent medicines. He flourished at the Pestle and Mortar in Ludgate Street, and obtained a "patent" for his toothache-tincture as early as 1744. The tincture consisted of twenty-six ingredients, and retailed at a shilling a bottle (there was as yet no patent-medicine stamp). Greenough's stomachic lozenges was another of this worthy's triumphs. Mr. Newbery sold them, as did Mr. W. Bayley, perfumer, at the Civet Cat, "for the purpose of remedying those Disorders that arise from too free Living, and of preventing the ill Effects of bad Wines, sour Punch, stale Beer, &c." Dr. Lowther's anti-scorbutic powders, another nostrum here advertised, professed to be a speedy cure of scurvy, leprosy, &c. There was nothing of the bacteriologist about Dr. Lowther, however. Bones of the human scull, powdered earthworms, "foal's bitt," hellebore, peony, and nitre were the chief ingredients of the Lowtherian hell-broth. The only one of the medicines advertised in the *Ledger* of 1762 which survives is Anderson's Scot's pills, concerning which a person at Kendal testifies that they have restored his sight, eased him from pain, and enabled him to continue his business of a shoemaker.

THE BIRTH OF THE "LEDGER."

The Public Ledger was not Mr. Newbery's first effort at newspaper-founding. Some year earlier the enterprising bookseller had brought out the *Universal Chronicle*, to which Dr. Johnson was a prominent contributor. The war with France and Spain in which England became involved in 1756, appeared to Newbery to offer a good opportunity for a fresh newspaper venture, and accordingly, on January 12, 1760, the first number of *The Public Ledger*, "a daily register of commerce and intelligence," made its appearance. The first issue was given away, subsequent numbers were priced at 2½*d.* each. Newbery thoroughly understood the advantage of having men of talent among the writers for his publications. Dr. Johnson and Smollett were his friends and contributors, and it is probable that their praise of Goldsmith

previous work in Newbery's papers induced the last-named to offer Oliver regular employment on *The Public Ledger*, of which the editor then was one Griffith Jones, a literary man of considerable parts.

"The Citizen of the World."

Goldsmith's contributions to the new paper were anonymous. So far as can be traced, his first article appeared in the fifth issue. Characteristically enough, it was in praise of the French, with whom Britain was then at war. This was followed by the famous "Chinese Letters," afterwards published in book-form under the title of "The Citizen of the World." Therein Goldsmith, from his dingy chambers in Wine Office Court, wrote under the guise of a Chinese mandarin, Lien Chi Altangi, describing English habits and institutions, to a friend in China. The "Chinese Letters" was the first of Goldsmith's greater works. Moralising, satirising, good-naturedly laughing, Oliver's pen illumined the pages of the early *Public Ledger* at the modest remuneration of a guinea a letter. Nor did Newbery restrain his contributor's pen even when it attacked the institutions from which the bookseller himself drew profit. Witness the two brilliant Chinese letters in which Goldsmith ridicules the very patent-medicine proprietors whose goods Newbery sold and whose advertisements appeared in the column next to that in which the lively Irishman held the nostrums up to scorn. Goldsmith's articles, like most others that appeared in the *Ledger*, were short. "Were angels to write books," he said, "they never would write folios."

John Newbery remained interested in *The Public Ledger* until his death, and bequeathed his property to his widow, Mrs. Mary Newbery, whose signature appears under a deed drawn up at Garraway's coffee-house on December 2, 1773, in which the proprietors of *The Public Ledger* farm their

For Disorders of the Stomach and Bowels.

HIS MAJESTY having, in Consideration of the *Extraordinary Virtues* of the STOMACHIC LOZENGES in curing the Disorders of the *Stomach* and *Bowels*, been pleased to grant his ROYAL LETTERS PATENT for the same; Notice is hereby given, that any Person counterfeiting the same, will be prosecuted with the utmost Severity.

These Stomachic Lozenges are now well known by Thousands to be a speedy and certain Remedy, in the following Complaints, viz.

1. In Indigestions, Coldnesses, Weaknesses and Relaxations of the Stomach, and their Consequences, viz. Fullness or being distended with Wind, and Want of Appetite.

2. In Cholicky Complaints, and all Pains of the Stomach and Bowels.

3. In expelling the *Gout* from the Stomach, and fixing it upon the Extremities.

4. In preventing Costiveness, supplying the Defect of the Bile, and remedying several Disorders that arise from too studious or too sedentary a Life, such as a cold watery Humour of the Stomach, Cold Phlegm, Sickness or Retchings of a Morning.

5. In curing the Heart-Burn, and all acid Crudities or Sournesses of the Stomach.

6. In remedying those Disorders that arise from too free Living, and preventing the ill Effects of bad Wines, sour Punch, stale Beer, &c.

In all the above Cases they afford almost instantaneous Relief, and are extreamly agreeable to take.

Sold only by J. NEWBERY, Bookseller, at the Bible and Sun, in St. Paul's Church-yard; and by W. BAYLEY, Perfumer, at the Civet Cat, opposite Suffolk Street, the Bottom of the Haymarket, Price 1s. 6d. the Box.

journal out to one William Faden for the term of three years. When the Newberys' connection with the journal ceased is not precisely known.

The Public Ledger of 1762 was a four-page sheet. At the top of the first column in the copy before us is a paragraph announcing the postponement of a meeting of merchants of London that had been called for that evening at the King's Arms Tavern, in Cornhill, "to consider of an Address to his Majesty." The subject of the address is not mentioned, but we may take it to have been the congratulation of George III. upon the birth of his eldest son (afterwards George IV.), which had taken place some two months before. Then follow some of the patent-medicine advertisements already referred to.

Stories and "Epigrams."

The literary contents of the issue of October 7, 1762, are scarcely so good as might be expected. The principal contributions are a rather foolish story, called "Eleonora and Orontes," and a "Review of Literary Productions," from "The Trimmer," consisting mostly of the familiar letter of Marcus Aurelius to Pollius, deploring the unhappiness of kings.

By way of a joke there is what the author calls an "Epigram" in French. It is addressed, "To the Printer of 'The Public Ledger.'" The French, misspelt and badly constructed, may well have come from the pen of Oliver himself in an idle hour.

A characteristic footnote to the "Epigram" runs:—

"*A Tranflation of the above will be efteemed a favour.*"

We cannot say whether the "favour" was done. If not, we would suggest that the present printer of *The Public Ledger*, even at this eleventh hour, should add to the gaiety of Mincing Lane by repeating the invitation, and inserting the replies. We will gladly supply the "original" epigram."

The departments of politics and theology are respectively represented by an article alleging that the Emperor Peter of Russia was poisoned by his wife, afterwards Catherine II., and by a letter to the editor, containing a harrowing account of the death of a "Scoffer at Religious Worship," ending in an onslaught on Wilkes and his associates. Among the advertisements is one announcing the forthcoming publication of "a letter to her R.H. the P— D— of W—, with a Word or two concerning Lord B., and the talk of the World." Evidently the lower phases of the New Journalism were not unfamiliar to the literary henchmen of Bookseller Newbery.

The Mincing Lane Business.

After these pious and spicy dishes we come to solid business. On the second page, behold us in full Mincing Lane. Not the Mincing Lane of to-day, the abode of dull and decorous speculation, but the Mincing Lane of the Honourable East India Company and Prizes of War, of residential mansions and sales by the candle. Here is post news from Weymouth, from Deal and from Falmouth; yonder are quotations of stock: "Bank Stock shut, South Sea ditto, India Stock 139½, 4 per cent. Consols 90⅞ to 91"; further down the page is a list of sales by auction. All the sales are by the candle, the now obsolete "inch-of-candle auctions," in which a piece of candle one inch long was lighted, and the lot assigned to the purchaser who had made the last bid before the candle burnt out. The news from Plymouth indicates lively prospects in the gum-arabic market:—

When the letters came away from Plymouth, his Majesty's frigate Venus, Captain Harrison, had just brought into that port a French privateer of 16 *guns and* 120 *men. She had taken the Southampton, Pearson, from Senegal for London, with* 80 *tons of gum on board, which, if the weather had permitted, would have been loaded on board the privateer. This is the third privateer taken by the Venus during this cruize.*

French Prizes.

French prizes, indeed, were as plentiful as blackberries. Several of them are advertised for sale by the candle at Mr. Lloyd's coffee-house in Pope's Head Alley, the central meeting-place of the shipping-trade, as Garraway's was that of the produce-business. Among French prize-goods to be sold at the last-named coffee-house are quantities of rappee-snuff, silver-hilted swords, silver candlesticks, and gold lace—plunder from the *Bertin*, captured on the high seas. But already peace was in the air. The Treaty of Paris of 1763 put an end to privateering exploits—at any rate during that generation, and brought to a close a war that cost France Canada and the Indies and blotted her name from the roll of great Colonial Powers. *The Public Ledger's* war-correspon-

dence came from incongruous quarters—Dusseldorf, Deal, and "the Havannah." It is interspersed with miscellaneous announcements, such as that the Fishmongers have decided to sell their fish in a more reasonable manner than formerly, a notice of fashionable arrivals at Bath, and a thrilling story of a "he-cat" that swam across the Thames.

From the great war that ended in 1763 England emerged mistress of the seas. France and Spain lay crippled; Holland's star had set; Germany, barely recovered from the Thirty Years' War of a century earlier, had been ravaged in the tussle between Frederick the Great, the French, and the Austrians. The end of the war marked the beginning of an era of extraordinary development in English

For SALE by the CANDLE,
At the NEW YORK Coffee-house, Sweeting's Alley,
In about Fourteen Days,
THE Following GOODS, viz.
About 21 Bags Vigonia Wool
And other GOODS.
Catalogues of which will be timely delivered, by
SAMUEL ROBINSON, Broker.

For SALE by the CANDLE,
At GARRAWAY's Coffee-House, in Exchange Alley,
THIS DAY the 7th October,
At Five o Clock in the Afternoon,
THE following GOODS, just landed, viz.
173 Casks St. Domingo Sugar
1 Barrel } Indigo
1 Bag }
1 Bale Sarsaparilla
12 Hhds Guadaloup Sugar
22 Casks ditto Coffee
21 Bags ditto Cotton
173 Bags Pimento
The aforesaid Goods to be seen to the Time of Sale, at the following Places, viz.
The Sugars at Mr. Woodbridge and Co. St. Dunstan's-Hill; the Coffee under the Care of Messrs. Cooper and Wightwick, and all the other Goods at No. 38, Steel Yard,
Where Catalogues may be had, at the Place of Sale, at the New York Coffee-house in Sweeting's Alley, and of
HUDSON, BARSSETT & HARRIS, Brokers
Laurence Pountney Lane, Cannon Street.

For SALE by the CANDLE,
At GARRAWAY's Coffee-house, Exchange Alley
In about Three Weeks.
THE following GOODS, just arrived, viz.
French Prize Indigo garbled
And sundry other Gooods
Catalogues of which will be timely delivered, by
HUDSON, BARSSETT & HARRIS Brokers

trade and industry. Between 1763 and 1792 the value of British exports to New England rose from 2,000,000*l.* to 4,000,000*l.* Trade with the West Indies expanded in a similar degree. The great inventions that revolutionised our manufacturing industries—the flying shuttle, the steam-engine, the spinning-jenny, the power-loom—followed in quick succession. Canals were dug, coal measures were mined on a scale previously impossible. Through all this mighty upheaval *the Public Ledger* continued its quiet course. Its first blush of literary style soon faded, and it contented itself thenceforth with dealing only with Mincing Lane and its auction-sales, never troubling itself about the changes proceeding on the face of the world.

Public Sales.

The auction-sales advertised in the issue of October 7, 1762, were not, indeed, of much importance. The various classes of produce were not then sold separately—one advertisement announces a sale of a bale of sarsaparilla, 173 bags of pimento, and quantities of coffee, sugar, and cotton. Aaron Lara, sworn broker, offers 40 hogsheads of gum seneca (Senegal gum), whereof samples might be seen at Seething Lane warehouse and at Smith & Speck's wharf. Blisson and Richard had 136 casks of "gum seneca," and 5 casks of French annatto in flags. The Senegal river, whence this gum was obtained, was ceded by France to England in 1763. At present the Senegal gum trade is vastly larger than it was in 1762, but its European centre has been shifted from London to Bordeaux. The other goods advertised comprise Guadeloupe sugar, Petersburg hemp, Virginia wool, and cocoa from "Guiaquilla" and "Carracca." French prizes yield 479 hogsheads of sugar from San Domingo, and 296 packages of coffee from the same place.

And who were the brokers that offered these goods for sale? Most of the names are no longer known in the trade: Benjamin Vaughan & Son, Francis Fanning, Blisson & Richard, Aaron Lara, J. Lagier Lamotte, Hudson, Barssett & Harris, John & James Bradshaw—all have disappeared. The firm of John Gibson, we believe, still survives under another name, a direct link with the middle of the last century.

For SALE by the CANDLE,
At LLOYD's Coffee-House, in Lombard-Street,
THIS DAY the 7th October,
At Twelve o'Clock at Noon, precisely,
The good Sloop INDUSTRY,

A Remarkable fine Sailer, Square Stern, New-England built, Burthen 80 Tons, more or less, having exceeding good Dimensions for the Portugal, Carolina, Coasting, or the African Trade, now laying at the Dublin Chain off Tower Stairs.
Inventories to be had on board, at the Place of Sale, and of
EDWARD CAHILL, Sworn-Broker,
At the New England Coffee-house, in Threadneedle-street.
N.B. In the Interim, any Person inclined to treat for this Vessel by Private Contract, may apply to the Broker.

Ships for Sale.

One of the most curious features of the old *Ledger* is the large number of advertisements of ships for sale. Each announcement is adorned with a rough woodcut figure of a full-rigged vessel, the meteor flag of England burning terrific from its square stern. The ships, as appears from the descriptions, are of all kinds: brigantines, snows, sloops, brigs, some of them English, but the majority "plantation" built (the Carolina planters still formed part and parcel of the Mother Country), ships for the Greenland fisheries, ships for the West Indian trade, ships for the African slave traffic.

Such was *The Public Ledger* 135 years ago. It was not at all a badly conducted journal. Its editor of to-day (if such a person should exist) might do worse than bear in mind the great traditions of the paper, and occasionally publish something worthy of a journal to which Oliver Goldsmith was an honoured contributor. Let him pay a visit to his great predecessor's tomb in the Abbey (it is not every paper that has a contributor buried in Poets' Corner), and ponder over Dr. Johnson's "nullum quod tetigit non ornavit" in Goldsmith's epitaph. Perhaps the communion may have an enlivening effect upon the columns of his journal.

The Holborn Guardians and Syphons.—With reference to the claim of the C.A.M.W.A.L. for 6*l.* 17*s.* 4*d.*, value of syphons and bottles and one box not returned to them from the Holborn Union establishments, the Guardians, at their meeting on Wednesday night, decided to pay the amount. Mr. Howes, J.P., said there was no proof one way or the other; but they accepted the figures of the company because they had none with which to answer them. But he moved "That it be an instruction to all tradesmen delivering bottles, cases, &c., returnable, to send in at the end of every six months their claim for empties not returned." This was adopted.

Trade Reports.

42 CANNON STREET, E.C., *March* 11.

BUSINESS in almost all departments of the drug and chemical markets has been extremely quiet since our last report. In fine chemicals there have been scarcely any alterations worth mentioning. Quinine is firmly held—the manufacturers are reluctant to quote and slow to deliver, and second-hand holders are fairly firm. Santonin is quoted lower in some quarters. Cream of tartar is again easier, and tartaric and citric acids are very dull of sale. Some manufacturers quote lower rates for pyrogallic acid. In heavy chemicals there has been an advance in sulphate of ammonia. Benzols are lower. Carbolic acid barely maintained. Glycerine is easier. Chlorate of potash weak. Sulphate of copper lower. Arsenic remains extremely firm. In soda salts there have been practically no alterations, but cyanide of potash offers at low prices, while permanganate is scarce and firm. An advance in quicksilver has been expected for some days, but has not yet taken place. In the drug-market we have to report some business at steady rates in balsam Peru. Crude camphor has been quiet at practically unchanged rates. Cardamoms have arrived rather freely, and so has galangal. Ipecacuanha is firmly held, and some business is said to have been done at steady rates. Lobelia herb is quoted higher from America. Lycopodium is also dearer. Menthol irregular and tending lower. Turkish opium is very quiet; Persian in fair demand. Orris-root neglected and tending lower. Saffron dull of sale. In essential oils there have been no alterations. Chinese soy is slightly firmer. Vanilla sold last Friday at higher prices for ordinary and slightly easier rates for fine qualities. To-day's gum acacia auctions were very dull, and resulted in a decline of about 2*s.* per cwt. on Ghatti, and 5*s.* per cwt. on fine centred Bombay gum. Ergot of rye quiet. Honey is reported in demand in Liverpool. Musk: there has been no business. Rhubarb firmly held. Cod-liver oil still tending lower. The drysaltery, spice, and oil markets show rather more alteration than the other departments of Mincing Lane trade. Shellac is demoralised at a considerable decline. Turmeric firm, and said to be mostly bought up. Galls steady for Chinese and very firm for Persian. In spices there has been a fair amount of business in Zanzibar cloves at irregular prices, advancing at the close. Black and white pepper are lower. Arrow-root fairly steady. Chillies firmer. Cassia lignea firmly held. Jamaica ginger rather dearer. Cochin realises full prices.

The Soudan Gum Trade.

The real commercial position of Soudan gum, the "Turkey sorts" of commerce, is "wropt in mistry," and the statements recently telegraphed to Europe by Reuter's agency do not tend to throw much light upon it. The only trade-outlet of Soudan produce at present is Suakin, on the Red Sea, and the military authorities in charge of the Nile Expedition have prohibited trade with the Khalifa's dominions on the ground that the money realised by the sale of the merchandise belonging to the subjects of that potentate may be used to assist him in opposing the expeditionary force. But, says Reuter, "in January about 15,000 cwt. of gum has been brought from Handub into the Government stores at Suakin, and during his recent visit there the commander of the expedition allowed 10,000 cwt. to be sold on the merchants guaranteeing that the proceeds should not be sent into the interior. With this exception, no merchandise has been allowed to pass the gates of the town since trade between Suakin and the interior has been prohibited." We understand that a gentleman much interested in Soudan produce has inquired into this matter, and has found that instead of 10,000 cwt., or about 2,500 bales, only 400 bales of gum have been allowed to pass into trade. What there is left behind in the Soudan no one knows, nor is it possible to say how long the decree prohibiting trade with the Soudan will remain in force. Meanwhile holders of gum in London profess themselves confident of higher rates, but buyers are very shy of the article.

Sicilian Essential Oils.

U.S. Consul Charles M. Caughey at Messina reports that several machines have lately been patented for the manufacture of peel essences. One of these is by Signor Serravallo, of Messina. One of the largest Messina essential-oil firms has purchased fifty-four of these machines, of which the construction is most ingenious, the motion reproducing that of the human fingers. After the fruit is cut and the pulp removed, the cells of the peel are gently but thoroughly broken, and the exuding essence, averaging about 10 drops to the rind of each lemon, collected upon sponges, which are kept thoroughly cleansed. The contents of these are from time to time automatically squeezed into basins placed beneath them. Preparatory to shipment the essence is placed in large stand casks holding about 200 gallons, where it is allowed to settle. It is then drawn off, passed through filtering-paper, and finally packed in tin-lined copper jars, generally of a net capacity of 25 lbs.

Hamburg Telegram.

Our Hamburg correspondent telegraphs on Thursday that there has been an improved demand for *Honey* of various grades, and higher prices have been paid. *Refined camphor* is very quiet, at 2·90m. per kilo. for bells. *Cod-liver oil* dull and tending lower; good quality offers at 80m. per barrel. *Cassia lignea* has an advancing tendency.

Bergen Cod-liver Oil Market.

Our Bergen correspondent telegraphs on Thursday afternoon:—"Weather in the fishing-district has improved, but the result of the fishery has not quite come up expectation so far. Since the beginning of the season 9,244,000 fish have been caught, against 4,855,000 at the corresponding time of last year; and 6,350 barrels of oil have been made, against 1,600 last year. Prices are slowly receding, 85*s.* per barrel, f.o.b., being now quoted for best non-freezing new oil."

Smyrna Telegram.

Our Smyrna correspondent wires under date of March 9: "American buyers have again appeared in our market. They offer the equivalent of 7*s.* 10*d.* per lb., f.o.b., for fair *Manufacturing* opium. This is fully 6*d.* below the figure at which business was done at the end of last month, but it is expected that holders will give way, and business result."

New York Cablegram.

Our New York correspondent telegraphs on Thursday evening that the sale of *Jalap* is very slow. Good *Vera Cruz* quality offers at from 10c. to 12c., and new crop at 9½c. per lb. *Podophyllin* is very scarce and held for higher prices, 10c. per lb. being the lowest quotation. *Senega-root* strong and dearer at 27c. per lb. for good quality. *Sassafras bark* and *Golden-seal root* are very scarce, an active business being done at 8½c. per lb. for the former and 29c. per lb. for the latter. *Grindelia robusta* scarce at 8c. per lb. *Vanillin* has declined to $1 per oz.

ACETANILID.—Rather easier; the current quotation being from 1*s.* 3*d.* to 1*s.* 6*d.* per lb. for bottles.

ACID (CARBOLIC) has become somewhat slacker for crystals, which now offer at 7⅝*d.* to 7¾*d.* per lb. for 39° C. to

40° C. and at 7⅛*d.* for 34° C. to 35° C. Some sales of the last-named variety are reported to have been made for forward delivery at 7*d.* per lb. *Crude* carbolic is still fairly firmly held: 60 per cent. at 2*s.* 3*d.* to 2*s.* 4*d.*; 75 per cent. at 2*s.* 7½*d.* to 2*s.* 8*d.* per gallon. *Cresylic*, of which there is a large supply, offers at 1*s.* 1*d.* per gallon for 95 per cent.

ACID (CITRIC).—Slow of sale and not quotable above 12¾*d.* per lb. for B.P. quality on the spot. *Concentrated juice* is still quoted at 11*l.* 12*s.* 6*d.* per pipe f.o.b.

ACID (PYROGALLIC) is being offered at reduced rates by some of the makers, 7*s.* being quoted for resublimed acid in bulk.

ACID (TARTARIC).—The English makers still quote 1 *s.* 1*d* per lb. for B.P. quality, but the market is extremely dull foreign brands offer at 12*d.* per lb.

ARAROBA is quiet at present, but the available supply does not now appear to be much, and holders of good quality are disposed to ask full prices. One of them will not sell below 4*s.* per lb.

ARSENIC.—Very firmly held at 25*l.* per ton for best white powder, and 34*l.* for lump.

BALSAM PERU.—Good qualities are reported to be scarce and firm. A sale of about ten cases is said to have taken place this week at 8*s.* per lb.

BALSAM (TOLU) is firmly held at 2*s.* 9*d.* per lb., c.i.f. terms. On the spot some holders are asking 3*s.* per lb.

BELLADONNA-ROOT remains scarce. Fair quality offers on the spot at 44*s.* per cwt., while for fine 46*s.* to 48*s.* is asked, and for ordinary from 40*s.* to 42*s.* per cwt.

CAMPHOR (CRUDE).—Dull of sale at practically unaltered quotations, from 98*s.* to 101*s.* per cwt. c.i.f. for *Formosa*, according to holder.

CANARY-SEED.—At the spice auctions this week 50 bags of fair *Turkish* seed sold at 27*s.* to 27*s.* 6*d.* per quarter, and 230 bags *Spanish* without reserve, "for account of whom it might concern," at 36*s.* 6*d.* to 37*s.* per quarter.

CARDAMOMS have been arriving freely since our last report. The *Manora* has brought 75 packages, the *Clan Graham* 116 packages (including 16 cases of seed).

CASCARILLA.—Owing to the high prices which cascarilla has recently brought on the European market, a considerable stock has accumulated in the Bahamas, and parcels are now freely offered. If buyers will hold off it is thought that much lower rates will be seen. At present good sifted broken quill is offered at 32*s.* 6*d.*, siftings at 21*s.* per cwt., c.i.f. British ports.

CINCHONA.—Since the last Amsterdam auctions several parcels have been sold privately at full prices. There has also been more demand for *Druggists'* quill. In the Amsterdam market the opinions about cinchona bark are very conflicting, but the majority believe in a lasting improvement, on account of the decreased receipts from Java, which, they maintain, will continue to dwindle. On the other hand there is also a party who say that the shipments are only kept down for a time, and that we shall be swamped again shortly; this, however, is the minority, and the feeling generally has improved of late. The April auction will be a large one, about 6,000 bales, but still, if the March shipments are small (and this will be made known before the sale), a good result is expected. It is said that the German factories are working day and night to keep pace with the orders in hand, which clashes with the supposed existance of enormous stocks in their hands, about which they are always talking. At all events the consumption of quinine seems to have been enormous.

COPPER SULPHATE is lower at from 18*l.* up to 19*l.* 10*s.* per ton on the spot, according to brand. In Liverpool the quotation is 18*l.* 10*s.* to 18*l.* 15*s.* per ton f.o.b.

CREAM OF TARTAR.—Very dull of sale and easier. Best white crystals are offering on the spot at 79*s.*, powder at 81*s.* per cwt., but concessions would probably be made in order to secure business. From Bordeaux the current quotation is 73*s.* per cwt., f.o.b., for crystals.

CUBEBS.—Some business is reported to have been done at 30*s.* per cwt. for good berries, without stalk, from Singapore

ERGOT OF RYE.—There are considerable stocks in London, and no business is reported. The quotations for German and Russian ergot run from 6*d.* to 8*d.* per lb. for good to fine quality. *Spanish* ergot, of which the stock is practically all wormy, is held at more or less nominal prices.

GALANGAL.—A further arrival of 314 bags galangal-root from Hong-Kong by the *Pak Ling* is not calculated to strengthen the position of our market in this article.

GLYCERINE offers at lower prices, although most of the foreign makers still maintain their nominal quotations. The English makers report a rather better business at lower rates. Double-distilled, s.g. 1·260, British or German brands, may be had from 62*s.* per cwt. upwards. One of the German manufacturers has also reduced his prices, and now quotes 64*s.* per cwt. for double-distilled, s.g. 1·260.

GUM ACACIA.—*Australian* gum has been somewhat scarce lately. Within the last week 44 bags have come from Adelaide in the *Buluwayo*. *East Indian* gums have been steady, but in limited demand, although an exception must be made in the case of *Ghatti*, for which there has been somewhat more inquiry, resulting in sales at from 28*s.* for medium up to 48*s.* per cwt. for fine quality. Fair *Aden* sorts have changed hands at 51*s.*, while for good pale as much as 60*s.* is asked. Glassy brown *Oomra* gum has been sold at 35*s.* per cwt. The stock of *Persian* gum is said to be rather small at present, a large quantity having been taken out of the market. The importers ask higher prices—viz., from 17*s.* up to 24*s.* for red to fine pale picked, 14*s.* to 17*s.* for sorts, and from 12*s.* to 17*s.* for siftings. At to-day's auctions very little gum was sold. *Ghatti* declined 2*s.*, fine scented Bombay 5*s.* per cwt.

GUM OLIBANUM.—There has recently been a good deal of speculation in this article, principally, it is thought, in the expectation that the plague in Bombay would cause supplies to fall short. From 41*s.* to 55*s.* has been paid privately for ordinary to fine pale drop; but at to-day's sales prices declined from 2*s.* to 3*s.* per cwt.

HONEY.—Up to the present no improvement can be noted in our market. Small sales of good white *Chilian* honey are reported at 30*s.* per cwt. *Californian*, ordinary to fine thick white, is held at from 30*s.* up to 42*s.* 6*d.*, and new *Italian* offers at from 35*s.* to 39*s.* per cwt. on the spot.

IODINE.—It is believed that a change may occur shortly, when the term for which the syndicate has been concluded expires. This will be at the end of the present month, but until then nothing will be known for certain. The English correspondent of an American journal is responsible for the statement that at a recent meeting of the Convention of Iodide Manufacturers Mr. David Howard proposed a gift of 1,000*l.* to the managing director of the Glasgow firm who control the Iodine Syndicate's goods, in recognition of the ability with which that gentleman had carried out his duties. "Not a word," says the report, "was raised against the proposal, and the recipient of the testimonial entertained his generous friends at a luncheon at the Savoy Hotel. When later on each member was called upon for 70*l.* as his share of the gift, some of them appeared in bardly so gracious a humour. But this is some indication of what the Convention has done for those within its pale in maintaining an artificially inflated market for quite a number of years."

IPECACUANHA.—Thirty-six bales of *Cartagena* ipecacuanha have been received this week by the *Don*. Some business is said to have taken place in *Brazilian* root at firm prices—viz., 5*s.* to 5*s.* 1*d.* per lb. for fair partly lean mixed quality.

KOLA.—The exports of kola-nuts from the Gold Coast Colony (British West Africa) were:—

1893	1894	1895
Packages, 979	Packages, 1,202	Packages, 2,352
Value, 27,516*l.*	Value, 28,512*l.*	Value, 30,566*l.*

LOBELIA is quoted higher from America, loose herb in bales being now held for 7*d.* to 7½*d.* per lb.

LYCOPODIUM is about ½*d.* per lb. dearer, 1*s.* 3*d.* to 1*s.* 4*d.* per lb. being the current quotation, c.i.f. terms.

MENTHOL.—In some quarters the market is represented as firm, but it is very doubtful if such is really the case. On the spot 6*s.* 6*d.* per lb. is the current quotation, and for

arrival 6*s.* 3*d.*, c.i.f., is asked, but it would certainly be possible to buy at rather lower rates.

Musk.—The London market is very firm, but business is restricted on account of the high prices asked and the scarcity of good qualities of Tonquin pods. The following figures show the exports of musk from Shanghai during the last seven years :—

—	1896	1895	1894	1893	1892	1891	1890
	Caddies	Caddies	Caddies	Caddies	Caddies	Caddies	Caddies
London ..	555	465	648	697	519	630	793
France ..	729	686	884	723	757	1,027	224
New York	393	334	255	357	323	403	170
Hamburg	125	191	130	192	126	100	69
Total ..	1,802	1,676	1,917	1,969	1,725	2,160	1,256

Of the exports in 1896 about 95 per cent. are estimated to have been Tonquin musk, the remainder consisting of the Yunnan, Dampi, and Sawko varieties.

Oil (Castor).—Reports from Calcutta state that the feeling is rather easier there, both for spot and for delivery. The supplies of seed of good quality are still rather small, but it is said that a large quantity of seed, including the first arrivals of the new Madras crop, is on the way. *East Indian* very quiet at 4*d.* to 4¼*d.* per lb. for first, and 3½*d.* per lb. for good seconds, Calcutta.

Oil (Cod-liver) is again offering at lower rates. A considerable quantity of *Holmboe's* brand has been sold this week at from 72*s.* 6*d.* to 75*s.* per barrel, c.i.f. terms, for new oil; and sales of *Jervell's* new oil are also reported at 80*s.* per barrel, c.i.f. There is, however, a general feeling that at the end of the Lofoden fishing, when the bulk of the new oil has passed into the hands of merchants, a firmer tone will be seen.

Oils (Essential).—*American HGH oil of peppermint* quiet. The spot price is nominally 7*s.* for shipment; 6*s.* 9*d.* per lb. would be taken. In *Star-anise oil* there has scarcely been any business this week; 6*s.* 10*d.* to 6*s.* 10½*d.* per lb. is the spot price, and from China the quotation for March–April steamer shipment is 6*s.* 8½*d.* per lb., c.i.f. terms. *Lemongrass oil* quiet at 2½*d.*, or perhaps a shade less on the spot. It it reported that some business has recently been done for distant steamer shipment at 2*d.* per oz., c.i.f. terms, but at present 2⅛*d.* per oz. is the current quotation. In *Cassia oil* there is practically no change. On the spot the market is extremely quiet, and for shipment 77-per-cent. to 80-per-cent. is quoted at 5*s.* 4½*d.*; 60-per-cent. to 65-per-cent. oil at 4*s.* 6*d.* per lb., c.i.f. *Spearmint oil* unchanged at 10*s.* c.i.f., and 10*s.* 6*d.* per lb. on the spot for HGH quality. Bulk oil offers at 6*s.* 6*d.* per lb. c.i.f. *Wintergreen oil* is quoted at 5*s.* 9*d.* c.i.f. and 6*s.* to 6*s.* 3*d.* per lb. on the spot, for bottles, while tins offer at 5*s.* 6*d.* per lb. net to arrive. *American cedar-wood oil* quiet at 1*s.* 1*d.* per lb. on the spot.

Opium.—The demand for *Persian* opium has been fairly brisk this week at from 9*s.* 9*d.* to 10*s.* 3*d.* per lb. for fine, 9*s.* to 9*s.* 6*d.* for medium, and from 7*s.* to 8*s.* 6*d.* per lb. for ordinary grades. *Turkish* opium unchanged.

Orris-root.—Neglected. Quotations from Italy are again lower, picked *Florentine* being offered at 56*s.*, sorts at 52*s.* per cwt., f.o b. Leghorn, while for *Veronese* root the prices range from 44*s.* 6*d.* to 47*s.* 6*d.*, f.o.b., according to quality.

Quassia.—Fairly steady. Some sales of old logs have been made recently at 5*l.* per ton on the spot, and new logs are quoted at 4*l.* 10*s.*; kiln-dried chips of good quality are nominally held at 11*l.* per ton.

Quicksilver is firmly held at 7*l.* per bottle from the importers, and 6*l.* 19*s.* per bottle in second hand. An advance has been expected since the beginning of the week.

Quinine.—Very quiet, but difficult to buy. A few small lots have changed hands this week at 8½*d.* per oz. in second-hand, which seems to be the bottom price. The manufacturers appear to be still very busy, and in some cases they are not prepared to deliver goods sold on contract before the end of the term.

Saffron.—It is said that the stocks in France and Spain are rather small. Nevertheless, on account of the absence of buyers, prices are tending somewhat easier, and this week it is said that one holder is rather pressing his supplies for sale below the current price. The price of best *Valencia* runs from 43*s.* to 46*s.*; fair to good quality from 38*s.* to 42*s.* per lb.

Shellac.—The week which has elapsed since our last report has been a rather eventful one in the history of the article. One of the principal speculators has been compelled to suspend payment; and the reports of extremely heavy shipments from Calcutta (which were contradicted at first) have been confirmed. As a result the article has become quite demoralised, and buyers are holding off in spite of the reduced quotations. On the whole, however, prices have not declined so much as might have been expected, and there has been nothing approaching a panic. But such confidence in the stability of the article as might still exist in certain quarters has received a severe shock. The following is a summary of the course of prices:—At the end of last week TN *Orange* was worth 70*s.* per cwt. on the spot, and for arrival there were sellers of the same quality, March-May shipment, at 66*s.* per cwt., c i.f. Early in the week March-May shipment declined to 65*s.*, and afterwards to 62*s.* per cwt., c.i.f., at which there are sellers to-day. There does not, however, appear to be any inclination whatever to buy. At auction on Tuesday 1,009 cases were offered, including 836 cases orange lac. There was an almost entire absence of demand, and the bulk of the supply was bought in nominally at high figures; but 161 cases were forced for sale and disposed of at a decline of 4*s.* to 5*s.* per cwt. on fair orange grades, fine qualities realising comparatively steady prices. Good fine pale seconds sold at 75*s.* to 80*s.* per cwt.; fair red to dull palish flat, 66*s.* to 67*s.*; blocky and curly livery, 62*s.* to 63*s.* per cwt. Good pale *Button* lac realised 87*s.* per cwt. The nominal spot value of TN orange is now 66*s.*, and of AC garnet 79*s.* per cwt.

Soda-salts.—*Ammonia alkali*, 58 per cent., still offers at 3*l.* 7*s.* 6*d.* per ton in bags on rails, or 3*l.* 10*s.* per ton, f.o.b. Liverpool. *Nitrate of soda* offers at 8*s.* 3*d.* per ton for refined and 8*s.* 1½*d.* for ordinary quality. *Soda crystals* are unchanged at low prices, 40*s.* to 42*s.* 6*d.* per ton, according to packing, and 47*s.* 6*d.* f.o.b. Liverpool. *Caustic soda* rather weak, although prices do not yet show any change; 70 per cent. spot is quoted at 7*l.* 7*s.* 6*d.*; Liverpool at 7*l.* 5*s.*, f.o.b.; 74 per cent. at 8*l.* 5*s.* Liverpool; and 76 per cent. at 8*l.* 15*s.*, f.o.b. Liverpool or Tyne. Beckton *Prussiate of soda* 4*d.* per lb. net. *Hyposulphite* offers at 6*l.* per ton in kegs on the spot; and at 5*l.* 7*s.* 6*d.*, f.o.b., in casks. The price of *Crystal carbonate* has recently been reduced, *Howard's* brand in 2-cwt. casks being now held at 9*s.*; smaller quantities B.P. at 12*s.* per cwt.

Soy.—*Chinese* is decidedly firmer. It is questionable whether 10*d.* per gallon would still be accepted for good quality, 10½*d.* to 11*d.* being the general quotation.

Spices.—Jamaica *Ginger* continues in excellent demand, all qualities selling readily, the good grades at some advance. At auction 110 barrels of new crop found buyers: fine bold bright washed at 95*s.*; medium small washed, 75*s.* to 77*s.* 6*d.*; small dull common, 70*s.* to 71*s.* 6*d.*; mouldy to common lean Rhatoon, 60*s.* to 62*s.* per cwt. Cochin ginger is held for rather firm prices, but the market does not show much animation, and at auction almost everything was bought in. A few lots sold: good limed medium to bold cut, 70*s.*; brown hard scraped, 48*s.* 6*d.*; ordinary limed, small to medium, partly cut, 37*s.*; common rough cuttings and ends, 11*s.* 6*d.* to 20*s.* 6*d.* per cwt. Zanzibar *Cloves* have been in active demand, but at irregular prices. Early in the week the market had a falling tendency, but on Wednesday, as a result of reports indicating a decline in the receipts at the shipping ports, prices again advanced. About 6,000 bales are reported sold for delivery—March–May at 2$\frac{3}{16}$*d.* to 2¼*d.*, April–June at 2$\frac{9}{32}$*d.* to 2$\frac{11}{32}$*d.*, June–August at 2⅜*d.* to 2$\frac{15}{32}$*d.* per lb. For shipment, March–May steamer, 2$\frac{7}{32}$*d.* per lb., c.i.f., has been paid. At auction very little was offered: good Zanzibar was bought in at 2½*d.*, Amboyna at 4⅛*d.* to 4¼*d.* per lb. *Pimento* steady. Good fair bold sold at auction at 2¾*d.* per lb. The market for *Pepper*, both black and white varieties, is easier; a fair business has been done for arrival at lower rates. On the spot the tone is dull. Of *Black pepper* 52 bags fair Aleppy sold at auction at 3*d.*

per lb. For delivery about 350 tons Singapore have changed hands at from $3\frac{3}{32}d.$ to $3\frac{5}{32}d.$ for February-April, $3\frac{1}{8}d.$ to $3\frac{3}{32}d.$ for March-May, and $3\frac{1}{4}d.$ to $3\frac{5}{32}d.$ per lb. for April-June. In white Singapore there have been sales at from $4\frac{5}{16}d.$ to $4\frac{7}{8}d.$ per lb. for March-May. Penang has sold at $4\frac{1}{8}d.$ per lb. on the spot, and at $4\frac{1}{2}d.$ to $4\frac{1}{8}d.$ per lb. for March-May. At auction 16 bags fine bold Singapore realised $5\frac{1}{4}d.$ per lb.

STAR ANISE.—Good fresh *Chinese* seed is now available on the spot at 95*s.* per cwt. For arrival the market is quiet and 78*s.* 6*d.* per cwt. c.i.f. is quoted as the price for March-April shipment.

STRYCHNIA.—Is tending firmer, but makers show no change as yet.

SUGAR OF MILK.—Best white *German* powder now offers at the somewhat easier price of 70*s.* per cwt., *American* 65*s.* to 70*s.* per cwt.

TRAGACANTH.—Some business has been done at steady prices.

TURMERIC.—Is again dearer: for fair *Bengal* 9*s.* $10\frac{1}{2}d.$ per cwt. has been paid on the spot, and there are no farther sellers below 10*s.* per cwt. Fair to good *Madras* finger is quoted at 13*s.* 6*d.* to 14*s.* 6*d.* per cwt.

VANILLA.—The supply of 380 tins offered at auction last Friday was fairly well competed for, and almost all sold at rather irregular prices, good qualities realising steady prices; medium grades an advance of 1*s.* to 1*s.* 6*d.*; and small brown pods being from 2*s.* to 3*s.* per lb. dearer. The bulk of the supply was *Seychelles*, *Bourbon* and *Mauritius* vanilla being only represented by 47 tins. The following prices were paid:—$7\frac{1}{2}$ inches to $8\frac{1}{2}$ inches, 28*s.* to 30*s.* 6*d.*; 6 inches to $7\frac{1}{2}$ inches, 26*s.* 6*d.* to 28*s.*; 5 inches to $6\frac{1}{2}$ inches, 24*s.* to 26*s.* 6*d.* Smaller lengths, fair crystallised, 22*s.* to 25*s.* 6*d.*; small to medium brown, from 18*s.* to 22*s.* per lb.

The Market in Heavy Chemicals.

There is a moderate inquiry for general chemicals and demand for export has improved slightly, although it is not by any means so heavy as is usually the case at this time of the year. The Board of Trade returns for February show a considerable falling-off in exports of alkali and bleaching-materials. The figures for alkali are as follows:—February 1895, 394,760 cwt.; February 1896, 340,031 cwt.; February 1897, 329,668 cwt., or a decrease of 3 per cent. as compared against 1896, and of 16·5 per cent. against 1895. The totals for January and February combined in bleaching materials are:—1895, 191,699 cwt.; 1896, 209,234 cwt.; 1897, 167,544 cwt. The home-trade demand continues fairly steady and regular. *Caustic soda* is steadier. *Bleaching-powder* in fair request. *Sulphate of ammonia* has advanced considerably: Beckton terms, prompt, 8*l.*; Beckton, April, 7*l.* 15*s.*; Hull, London, and Leith. 8*l.* 5*s.* The exports from Leith last week amounted to 647 tons. *Benzols* are dull and lower: 90-per-cent., prompt, 2*s.* 10*d.*; April-June, 2*s.* 8*d.*; 50-per-cent., prompt 2*s.* 6*d.*; forward, 2*s.* 5*d.* *Sulphate of copper* is rather irregular, but quotations are practically unchanged. *Cream of tartar* dull. *Linseed* and *Cottonseed cakes* dull. Recovered *Sulphur* very firm, and slightly higher prices are asked.

The Liverpool Drug-market.

Our Liverpool correspondent, writing on March 10, says that the market for *Castor oil* has shown signs of weakness during the week; good seconds Calcutta have gone back to $2\frac{15}{16}d.$; first-pressure French to $2\frac{7}{8}d.$; Madras is still $3\frac{1}{4}d.$; and Bombay $2\frac{3}{4}d.$ per lb. Russian *Anise* is held for 15*s.* 6*d.* to 16*s.* per cwt.; and good Turkish 22*s.* 6*d.* per cwt. In *Honeys* there has been a good demand for Pile 2 and 3 Chilian, but the other grades do not meet with much demand. *Turpentine* is firm at 21*s.* 3*d.* per cwt. Of African *Ginger* several parcels have sold, Sierra Leone new crop at 19*s.* 3*d.* per cwt., which is a slight decline from the last prices paid. *Canary-seed* is steadier, and sales of good Turkish have been effected on the spot at 29*s.* per quarter, with large sales to arrive at a shade less. Soudan sorts of *Gum acacia* are rather quiet, the news of further supplies on the way from the Soudan having rather checked the demand; but advices from Cairo are to the effect that prices there are fully up to the parity of our market, so it is probable that we shall see no material change in values for some time to come. Only a very limited selection of medium grades continues to be offered here, and holders are firm. In *Beeswax* there has been more movement, and sales of a considerable quantity of Chilian have taken place at 6*l.* 12*s.* 6*d.* for mixed quality; and 4 packages of Peruvian realised 7*l.* per cwt. *Kola-nuts* continue in good demand, fine dry selling at $3\frac{1}{2}d.$ to 4*d.* per lb. in quantity as they arrive; and fresh 1*d.* to $2\frac{1}{2}d.$ per lb., according to quality. Some black Teneriffe *Cochineal* has been sold at late rates, but the actual price did not transpire. African *Chillies*, Sierra Leone description, are still selling at 35*s.* per cwt., but the supply is very limited indeed. *Carnauba wax* is attracting more attention, and sales of grey have been made at 41*s.* per cwt., and yellow up to 75*s.* per cwt. *Potashes* are selling at 20*s.* 6*d.*: and *Pearlashes* at 32*s.* 6*d.* to 35*s.* per cwt. *Cream of tartar* firm at 81*s.* per cwt. for first white quality.

The Hamburg Drug-market.

Our Hamburg correspondent writes on March 9:—"Our drug-market was very quiet last week; the present low prices for many articles do not tempt buyers, and only transactions of little importance have taken place. *Antimony* is unchanged at $36\frac{1}{2}$m. to 37m. per 100 kilos. *Cape aloes* unchanged at $45\frac{1}{2}$m. per 100 kilos., *Curaçao* at 31m. per 100 kilos. *Balsam copaiba* has continued very firm at 4.50m. per kilo. for genuine Maracaibo. *Balsam Peru* is not quite so firm and can be bought to-day at $17\frac{1}{2}$m. per kilo. *Balsam tolu* is unchanged at $4\frac{3}{4}$m. per kilo. *Camphor* (*refined*) steady at 295m. per 100 kilos., but there is not much doing just now. *Cassia lignea* very firm; China is held to-day at 39*s.* for shipment, at which price there are no buyers just yet. New Cassia ex warehouse quotes at from 40m. to 41m.; fine old Cassia, 45m. per 50 kilos. *Cinnamon* is very firm; March-May shipment from Ceylon is held at equal to $10\frac{1}{2}d.$ per lb. *Cinnamon chips* for shipment are held at the parity of $2\frac{11}{16}d.$ per lb. *Russian cantharides* unchanged at 390m. to 400m. per 100 kilos. *Coca-leaves* (Bolivian) quiet at 120m. to 140m. per 100 kilos. *Ergot of rye* remains without alteration at 95m. to 100m. per 100 kilos. *Menthol* is quiet at $14\frac{1}{2}$m. to 15m. per kilo. for spot delivery. *Kola-nuts* quiet at 50m. to 70m. per 100 kilos., according to quality. *Lycopodium* dearer at 265m. to 275m. per 100 kilos. *Gum tragacanth* in good demand. Russian *Anise* quiet; there are offers to-day at 27m. per 100 kilos. *Cumin-seed* unchanged at 43m. to 44m. per 100 kilos. *Coriander-seed* very dull at $12\frac{1}{2}$m. per 100 kilos. *Star-anise-seed* is also quiet at 170m. per 100 kilos. *Star-anise oil* dull at $15\frac{1}{4}$m. per kilo. *Peppermint oil* at $6\frac{3}{4}$m. per lb. for HGH; $6\frac{3}{4}$m. for Todd. Japanese *Peppermint oil* steady at $6\frac{1}{2}$m. to 7m. per kilo. *Citronella oil* unchanged at 2.65m. to 2.70m. per kilo. *Castor oil* a little easier and more freely offering at 61m. to 62m. per 100 kilos. for French oil of first pressing. *Cod-liver oil* slow of sale; non-congealing oil is offering at 85m. per barrel. *Wax* is quiet: *Japan* spot at 76m. to 75m. per 100 kilos.; *Carnauba* 90m. per 100 kilos. for grey, 110m. to 125m. for medium quality."

The Smyrna Opium-market.

Our Smyrna correspondent writes on February 27:—"The week ending to-day has passed practically without any business, the American buyers having withdrawn, as they could not bring holders to accept their views. The total stock of opium in Smyrna and Constantinople is estimated at about 1,600 cases, almost equally divided between the two places. It is now over twenty years since the stock at the same time of the season was so small. This is principally due to the enormous transactions for export which have taken place since December. There is every indication that the coming crop will be a very good one, and the market closes with a somewhat weaker feeling. The sales during February amounted to 443 packages for America and 22 for England and other countries. At the close the prices are as follows:—Old selected *Manufacturing* opium, 8*s.* 5*d.* to 8*s.* 6*d.* per lb. f.o.b.; fair current quality, 8*s.* 3*d.* to 8*s.* 4*d.*; fair seconds, 8*s.* 6*d.*; *Yerli talequale*, 8*s.* 6*d.* to 8*s.* 7*d.*; good qualities, suitable for the Dutch Company, 8*s.* 10*d.* per lb. f.o.b."

In writing letters for publication, correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.

Notice to Correspondents.

Pharmacy Act Prosecutions in Glasgow.

Sir,—The prosecutions against eight assistants employed in doctors' shops, as intimated in your last issue, have taken place with results I have no doubt entirely satisfactory to the prosecuting body.

The mischief of the matter is that, having paid their fines, the parties incriminated return to business none the worse, but rather strengthened by the consciousness that the Society, like lightning, will not strike the same spot again.

So the matter rests until our Bloomsbury friends take another prosecuting fit after the usual interval.

What is the good of it all?

What is the use of prosecuting a few unimportant doctors' shopmen when the worst offenders are connected with their own body—this straining at gnats and swallowing of camels?

The facts are notorious and only too well known to the Society's officials.

Here are one or two of the worst cases:—

A large establishment, with a representative on the Scotch Executive, no less, employing a number of assistants, can boast of only one certificated individual kept to sell poisons to suspicious-looking strangers, while the manager, the second counterman and the rest conduct a very comfortable retail and dispensing business.

Two prominent officials of the Glasgow Pharmaceutical Association each running a shop under an assumed name without any certificated party employed or in charge thereof.

The shop of another prominent Society man was in the same condition as the above-mentioned for over a year.

We do not find any of these gentlemen figuring in the Sheriff Court at the instance of Mr. Bremridge, and why? Is it because they would retaliate by withdrawing their subscriptions? I can think of no other reason. Their case is more flagrant than those heard of this week. They know the law thoroughly—nay, they study to evade it. Their greed of gain is their only excuse.

The Society officials know of them, but not officially, and there they make the distinction. You say, "So-and-so is so-and-so." "Well," they reply, "lay an information"; and so the abuse continues.

Every unqualified assistant in Glasgow is acquainted with the appearance of Messrs. Tait, Allan, and Spence, and refuses to sell them poisons accordingly, therefore they fall upon those who do not know them—*i.e.*, the doctors' shops.

I do not wish by any means to defend the latter—I suffer from their competition as much as any—but for our own credit I think we should clean our own doorstep before meddling with other folk's.

Connection with the Society ought not to confer exemption to infringers of the Pharmacy Act, as it appears to do in Glasgow.

Fair play with doctors as well as ourselves should be the rule.

We want to see the fair and equable administration of the Pharmacy Acts, and no favour shown.

Yours truly,

Glasgow, March 7. Fair Horny. (65/57.)

Advertising Ideas.

Sir,—Does Messrs. Oppenheimer's silence on this subject mean that they cannot justify their action? I asked them a plain question, and they have given no answer. If they now see that a mistake has been made in making friends with the few instead of with the many, or rather with everyone, would it not be well for them to intimate a change of policy? It must be a unique thing in the annals of business to find a firm doing what they can to send people away from shops which are near at hand, and which stock their products, to one not so accessible and in reaching which they must spend time and often money. And when this firm's endeavour is not only to divert the sale of their own goods, but also of all others to this particular—in most cases—far-away depôt, Messrs. Oppenheimer need not be surprised if they find that this is warmly—as Mr. Currie puts it—"resented." Such practices can only lead to one result in the end—viz., a less wide distribution of this particular firm's goods and a diminished sale. Messrs. Oppenheimer can have as many "depôts" as they choose, but they should stop there, and not interfere with other people's business.

I may add that judging from the numerous expressions of approval which have reached me, Mr. Forret's and the subsequent letters on this subject have received widespread attention.

I am, yours sincerely,

Edinburgh, March 9. Claude F. Henry.

Purity Tests for Essential Oils.

Sir,—In a pamphlet published by Messrs. Schimmel & Co., of Leipzig, the following sweeping assertion is made:—

> In the South of France no notice whatever is taken of the progress effected in the scientific methods for appreciating the quality of essential oils. The French distillers still cling obstinately to the sense of smell alone. Certainly, it is more convenient to hang on to the ancient empirical system of the nose-test; but this indifference to the results of scientific and chemical research must ultimately bear its consequent bitter fruits.

It would be absurd to contest the value of the discoveries made by men of science of all nationalities, in every branch of industry and art. Practical chemists have succeeded in imitating almost exactly that subtle property of every vegetable and animal substance, which may be called its soul—viz., "its perfume or odour." So far the world is indebted to the chemist; but when he asserts that the delicate sense of smell can be represented and judged by means of a chemical formula, it is time that he should be clearly told that such an assertion is a scientific fanaticism of a very misleading kind. The pleasure derived from the sense of smell depends on many divergent factors, of which the three most important are as follows:—

(1) All vegetable and animal substances possess an odour, differing in every body according to the region of its birth, the state of the atmosphere surrounding it, and such like natural conditions.

(2) All such substances emit an odour, which varies in intensity according to the temperature.

(3) Animals are furnished with a more or less perfect organ for the perception of these odours. This perception is the sense of smell. Now the sense of smell varies in every animal according to the necessity for its use. With human beings it is more powerful in the savage than in the civilised state. It is easy to see that it is impossible to find chemical formulæ which can absolutely represent the base of a perfume, the method by which it is developed, and finally the natural law which occasions the sense of smell to the olfactory nerve which receives the perfume. In absolute contradiction to the statement of the German firm, the distillers of perfumes in the South of France maintain that perfumes which are specially the delight of the nose must naturally be judged by the nose, just as meats are judged by the palate, textures by the touch, pictures by the eye, and music by the ear.

It is a matter of regret that so many perfumers can be deceived by the false security of a chemical analysis. It causes them to reject perfumes of the most exquisite delicacy, in favour of productions of an analogous nature because these latter contain so-and-so much per cent. of odorous principle, which cannot be proved to have any relation to the delicacy or value of the perfume itself, because chemically no account can be taken of the pleasantness or the contrary of such principles. Arguing on the same premises, a chemical formula would prove the heavy wines of Hérault and Spain were vastly superior to the delicate first growths of Bordeaux and Burgundy, and demonstrate that a spoonful of extract of meat is more agreeable than a roast chicken.

This so-called chemical analysis which pretends to guard

gainst all adulteration is nothing but a snare. Chemical ophistication labours under the disadvantage of not being ertain of giving what is expected of a perfume—that is, he sense of a pleasant odour, or the pleasure of the nose. Another firm advocates, as a purity test of essential oils, a ystem based upon the time taken in the evaporation of the ssence. Chemical formulæ are here superseded by hours or evaporation. So many hours, so much perfume. It is implicity itself. Divide the price by the hours, and you at nce get the comparative cost of the perfume. All that is vanted is a strip of white paper and an educated nose. 'his inventor cannot dispense with that previously con-emned organ the nose. On the contrary, sir, as a distiller f experience, I maintain that a consumer of essential oils hould be guided by his confidence in the ability and onesty of the distiller with whom he deals, and by the dvice of his nose. Yours truly,

Cannes, France, March 8. F. Varaldi.

DISPENSING NOTES.

his section is intended for the elucidation of dispensing difficulties. Subscribers and their employés may contribute to it, criticising any of the fol'owing notes or contributing notes on prescriptions which they have found to be of unusual interest.

An Elegant Mixture.

Sir,—I am putting up mixture as the subjoined formula, ıt somehow do not seem to get the same result twice. have sometimes got a copious white precipitate which, ter standing a few days, becomes very hard, and at other mes a crystalline deposit forms. I am told an elegant ixture can be made, but up to now, I regret to say, I fail to btain one.

Ammon. carb.	ʒiv. gr. 30
Magn. sulphat.	℥iij. ʒij. gr. ix.
Tr. belladonnæ	ʒvj.
Tr. nuc. vomicæ	ʒvj.
Spt. chloroformi	ʒiss.
Tinct. zingiberis	℥iss.
Aq. menth. pip. ad	℥xxxvj.

M. Ft. mist.

Coch. mag. j. h.d.s.

I am, dear Sir, yours faithfully,

March 3. Puzzled. (67/1.)

[Magnesium carbonate is formed, and cannot be avoided. ıe nature of the precipitate entirely depends upon tempera-re, dilution of the solutions on mixing, the manner of ixing, and the nature of the ammonium carbonate. If Puzzled" fixes upon one set of conditions and adheres to the mixture should always be the same. What "an egant mixture" means we do not know.]

Butyl-chloral Mixture.

Sir,—Will you kindly let me know the best way to mix e following prescription so as to get the whole of the tyl-chloral hydrate in solution? Also, if aq. dest. were dered, would it be admissible to use warm water to dissolve ? Yours truly,

Euclid. (62/26.)

Butyl-chloral hydrat.	℈ij.
Glycerini	ʒij.
Tr. gelsem.	ʒij.
Aq. chlorof. ad	℥vj.

M. Ft. mist.

Heat the glycerine in a test-tube to a temperature of 0° F. or thereabouts—*i.e.*, put the tube in a small basin of iling water for a few minutes. Add the butyl-chloral drate and dissolve. Half fill the 6-oz. bottle with chloro-m-water, pour the glycerine-solution into it, shake; wash t the test-tube with 1 oz. of aq. chlorof., add to the bottle, en add the tincture, and finish off the mixture *s.a.* It a mistake to use hot water in compounding butyl-chloral drate mixtures, as thereby the milkiness of the mixture is reased. Three drachms of the hydrate dissolve in 7 fl. dr. glycerine, and form a solution which dilutes clear with its own volume of water, the resulting solution being very convenient for dispensing-purposes.]

A Quinine-mixture.

Sir,—Should be much obliged if you would give the correct method of dispensing the following:—

Quin. hydrochlor.	gr. xx.
Sodii iod.	gr. xxx.
Tr. chloroform. co.	ʒiij.
Aq. ad	℥viij.

M. Ft. mist.

Yours, &c.,

Carbon. (66/49.)

[Dissolve the quinine hydrochlorate in 6 oz. of water, and add ʒij. of mucilage of acacia to the solution. Then pour in a solution of the iodide in 1 oz. of water, and give a single shake to mix; add the tincture and make up. Quinine hydriodate separates, and the mucilage prevents it crystallising and adhering to the edge of the bottle.]

A Bismuth-mixture.

Sir,—I have many times dispensed the following prescription, and have always sent it out slightly opaque. I, however, had to dispense it after it had been at another chemist's, who sends it out quite different; in fact, the bottle as he sends it out is half filled with white powder, and another chemist dispensed it in a similar manner:—

Sodii bicarb.	ʒiiss.
Spt. chlorof.	ʒiss.
Liq. bismuthi	ʒvj.
Aq. menth. pip. ad	℥viij.

March 1. Yours truly,

Jay Bee. (59/55).

[Our correspondent's method was to dissolve the bicarbonate in water, adding the liq. bismuthi last. This is the proper way. The amount of precipitate formed depends upon (1) the kind of liq. bismuthi used and (2) whether the bicarbonate is from stock solution or is freshly dissolved. In regard to the first point it may be noted that liq. bismuthi containing excess of ammonium citrate does not form the precipitate immediately, but in the course of a few days bismuth carbonate is thrown down. This is the case with liq. bismuthi (Schacht) and some other commercial liquors of an improved B.P. type. Carbonates precipitate all the liquors at once, and stock solutions of bicarbonates always contain carbonate. Commercial liq. bismuthi seems to be somewhat variable, and deserves the attention of some investigator.]

An Iron-mixture.

Sir,—A surgeon for whom I dispense ordered the following mixture, which was sent out with the characteristic flocculent green precipitate and a "shake" label. The doctor complains of this, saying that it ought to be quite clear and show no precipitation, having been previously dispensed by two chemists as a "clear" mixture:—

Ferri sulph.	gr. xv.
Acid. sulph. dil.	♏xl.
Æther. chloric.	ʒiss.
Sp. ammon. co.	ʒij.
Aquæ ad	℥viij.

M. Ft. mist.

I would be much obliged by your informing me what the appearance of above should be. Query: did the other chemists filter it?

I have tried all possible methods, but always get the sediment. Yours faithfully,

February 26. Proto-Carb. (58/29.)

[If the spt. ammon. aromat. is of full Pharmacopœial strength there is a precipitate of ferrous carbonate and hydroxide. A little more dilute sulphuric acid prevents this and clears it up, and this course may have been followed.]

LEGAL QUERIES.

69/29. *Country Chemist.*—We cannot say whether it would be worth while to get provisional protection of an improvement in a surgical appliance, especially as you do

not give us the slightest indication of the nature of the improvement. The protection will only cost you 1*l.*, so if the improvement is of any good at all it seems worth getting.

66/59. *Wood.*—It is not legal to sell as castor-oil pills, pills which owe their activity to some other ingredient.

65/30. *Duplex.*—It is not legal to sell acetic acid as vinegar.

59/54. *Nemo.*—We know of no authorisation of the use of methylated spirit for the preparation of collodion. You can use the so-called methylated ether, but you should not use methylated spirit unless you get special permission.

66/21. *Antipyrin.*—See Diary in respect to registration. We do not answer such questions as your second.

56/54. *O. L. J.*—We find no slip of paper with your letter, but if we had it we could not advise you as to what description you may safely use without being in danger of prosecution under the Dentists Act. Some magistrates have interpreted this Act in what we regard as an illegal manner. Your own experience should be a sufficient guide.

60/16. *E. J. Wood.*—The case you refer to in which a defendant, through his solicitor, refused to produce his poison-book, was reported in the *C. & D.* in October, 1878, but it proved nothing, because the Magistrates, though they disagreed with the argument, made no order.

38/24. *Derby Scot.*—Magistrates have absolute discretion to fix the remuneration of witnesses, and there is no appeal from their decision. There is no fixed scale.

60/41. *Inquiring Chemist.*—That unqualified persons still sell proprietary medicines to some extent is likely enough. Any chemist who knows of such a case should give information to the Pharmaceutical Society. The practice can only be kept down by frequent fines. The sale of sulphocyanide of mercury by unregistered persons is, we think, an infringement of the Pharmacy Act.

MISCELLANEOUS INQUIRIES.

Notice to Querists.

We reply to our subscribers and their employés only; queries must, therefore, be authenticated by the name and address of the subscriber. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and the name of the querist should be placed on the sample. Queries are not replied to by post.

52/14. *Calumba.*—No steamship companies carry dispensers. The doctors do the dispensing, assisted by their stewards.

52/21. *Camdux.*—You cannot remove the colour without acting on the spirit.

52/2. *R. H.*—There is a formula in our Diary.

52/26. *Alpha.*—The best arrangement about the partnership would be, we should think, that each partner should draw a salary, the one who owes the capital to have an agreed proportion deducted. The value of a medical practice depends largely on how far it is personal. A famous surgeon, for instance, cannot transfer the confidence of his patients, so he has nothing to sell. In general country practices a year's profits is often agreed upon; but in special circumstances eighteen months' or two years' might be obtained. A death vacancy would be cheaper. This applies to veterinary practices also.

49/15. *Edund.*—**For Irritation on Skin of Cat**, which is evident an eczematous condition as the result of overfeeding, try dabbing the parts with a 1-30 lotion of boric acid. Feed carefully and sparingly on bread and milk, giving half a teaspoonful of sulphur in the food once or twice a week, and 1-minim doses of arsenic as before.

52/62. *S. H. J.*—**Acrimonia for horses' hoofs.**—This seems to be one of those names which "no fellow can understand," and is evidently a corruption of some other. Try your customer with one or two of the hoof-ointments in V.C.P. We do not suppose that it can mean a preparation of agrimony.

25/20. *Extract.*—**Students and the New B.P.**—It is not at all likely that any Minor student will be ploughed upon the new B.P. for two or three examinations after it is issued; but they will be expected to have a general knowledge of the more important changes in the work, and these will be so fully dealt with in trade journals that ignorance will be quite inexcusable.

54/9. *Nunquam.*—**Sight-testing.**—To the works recently mentioned we may add "The Optician's Handbook" (published by the *Optician*, 125 Fleet Street, 3*s.* 6*d.*).

54/3. *Mica.*—**Violet-scented Oatmeal:**—

Powdered orris	1 oz.
Ionone	10 drops

Triturate for five minutes, then add—

Oatmeal (medium, and sifted free from flour)	12 oz.

Mix.

This is the only formula we have. If it does not suit you let us have a sample of the preparation that you like.

54/60. *Gout.*—**Laville's Gout-liquor:**—

Quinetum	gr. xlv.
Extract of colocynth	ʒss.
Rectified spirit	℥viiss.
Malaga wine	℥xxvss.

Dissolve and filter.

Laville's Gout-pills:—

Extract of winter cherry	ʒiij.
Silicate of soda	ʒj.

Make a mass and dissolve into 5-gr. pills.

Dose: Four to ten pills daily.

54/38. *The Candy-man's Son.*—**Gilbert's Syrup.**—You will find the formula for this in the *C. & D.*, February 22, 1896, page 299.

52/58. *A. W. H.*—**Fruit Cough-syrup:**—

Codeine	gr. xvj.
Distilled water	ʒij.
Dilute hydrochloric acid	ʒj.

Dissolve and add to the following:—

Ipecacuanha wine	℥iss.
Spirit of chloroform	℥ss.
Syrup of wild cherry to	℥xvj.

Mix.

May be coloured with cochineal. Instead of syrup of wild cherry you may use a mixture of that syrup 1 part, syrup of squill 1 part, and simple syrup 3 parts, flavouring with essence of black currant and colouring with cochineal and caramel. In any case the dose is a teaspoonful.

53/29. *M. D.* (Cape Colony).—**Blount's Oil of Tar** is, as you are aware, a proprietary preparation, of the composition of which we have not the slightest idea.

52/13. *Nil Desperandum.*—**Angostura Bitters.**—The following is one of many formulæ which have been published, although the original makers never, as far as we are aware, published their formula:—

Angostura-bark	4 oz.
Chamomile-flowers	1 oz.
Cardamom-seeds	¼ oz.
Cinnamon	1 oz.
Raisins	1 lb.
Proof spirit	2 gallons

Macerate for a month, and filter.

The resulting preparation is deficient in colour, and is the better for the addition of aloes ʒj. and cochineal ʒss.

45/60. *Xylem.*—**Headache-powder**, "which sells like wildfire."—The directions are: "One powder to be taken in a tablespoonful of milk." The name of the maker is un-

known. We find the powder to be 8½ gr. of acetanilide reduced to fine powder, and without admixture.

47/56. *Headache.*—**Headache-powder.**—This one weighs 5½ gr., and the powder is crystalline, but it is acetanilide all the same. It comes from a different district, and is, perhaps, not quite so effectual as 45/60 because it is not in fine powder.

49/24. *H. B. & S.*—**Horse-powders.**—Each contains, approximately, the following:—

Antim. nig.	ʒj.
Sulph. sub.	ʒss.
Potass. nitrat.	ʒij.
Pulv. gentianæ	ʒj.
Pulv. fenugræci	ʒj.
Pulv. glycyrrhiz.	ʒij.

M.

111/97. *Birmingham.*—**Sausage-colouring.**—Your sample is one of the Ponceaus or artificial red dyes. You will get it matched by a dye-dealer better than we can "spot" it by analysis. We can find no starch in it, nor nitre or other admixture. If the solution of the dye is applied hot to the skins it should not penetrate to the meat, but the skins must not be too moist at the time.

48/31. *Sausage.*—The foregoing is also applicable to you, your sample being of lighter colour. It is not carmine, a fact which you might have arrived at by remembering that carmine is insoluble in water.

46/72. *D. E. F.*—**Liquid Metal-polish.**—Your sample is composed as follows:—

Precipitated chalk	℥ij.
Rose pink	ʒj.
Methylated spirit	℥iv.
Solution of ammonia	℥xvj.

Mix.

58/66. *Desespero* (Pernambuco).—See the note on page 326, February 20 issue.

58/17. *Lin. Saponis.*—**An Essay on Coca and Cocaine** is promised by our correspondent to a literary society: what should he do to get it up? Read Martindale's "Coca and Cocaine," published by Lewis, Gower Street, W.C. It is very interesting. Also what is said in any recent work on therapeutics; but there is enough in Mr. Martindale's book without going deeply into the therapeutics of the thing. The following might be the plan of the paper:—

The coca-plant, where it grows, and what it is; use of coca by the Paraguayans; introduction into this country, and experiments by Sir Robert Christison and others; trials in the army; uses in medicine; discovery of cocaine and its local anæsthetic properties; the immediate results of that discovery; present uses of the alkaloid and of coca-leaves; their dangers; cocainism and its disastrous effects; popular preparations.

60/18. *Radix.*—**The Moustache of a Young Man** who has a thick crop of dark hair is thin and fair; wanted, something to make it dark and thick. We presume that he has never shaved, so he had better begin now, while it is not unfashionable to have no hair on the face. If he does not like that advice try him with a pilocarpine lotion, say—

Pilocarp. nitrat.	gr. j.
Aq. rosæ	ʒj.

Solve et adde—

Tr. lavand. co.	ʒss.
Aq. lavand. ad	℥j.

M.

It will do no harm, and may do good, especially if a fair quantity of soft-sawder goes with it. The lotion to be applied to the moustache morning and evening. **Sulphur Hair-restorer** darkens the hair temporarily only, by depositing lead sulphide upon it. **Newcastle Oil.**—We are not sure that we have not heard of this before, and cannot say whether it is British oils or not. **Fisig Margiad** is Welsh, you say. Can any Welsh subscriber give us the recipe for it?

59/41. *Canis.*—**The Battersea Lethal-chamber Gas** is carbon monoxide.

59/46. *Boer* (Turin).—**Alcohol from Acetylene.**—The apparatus described on page 352 has not yet been put on the market, and is not likely to be, because an apparatus to suit the purpose should without much difficulty be constructed by any dealer in chemical apparatus.

59/47. *J. T. F.*—**Register of Chemists and Druggists.**—Our correspondent puts the following question:—"A month or two ago you gave a list of names furnished by Registrar of Pharmaceutical Society which would be erased therefrom unless the individuals concerned communicated with Registrar within a certain date. Some whose names were on the said list had only passed within the last two years. Why were their names there?" [Many candidates for the Minor examination apply for admission from temporary lodgings, as in the towns where they are studying. When they pass and return to their homes they give no thought of their address on the register, and as official communications to their old lodgings are returned through the Dead-letter Office, their names in due course are placed on the list above referred to. It is the duty of everyone who passes the Minor to give the Registrar his permanent address, or at least one at which letters will be received. Failing this, they have the risk of getting their names taken off the register, and its restoration will cost them a guinea.]

63/5. *H. B.*—**Gold Toning.**—In toning silver prints with gold chloride the noble metal takes the place of the silver; in fact, the photograph is then a gold print.

62/28. *Emulsio.*—**Book on Consumption.**—One of the best is Dr. William Murrell's "Prevention of Consumption" (Baillière, 3*s.* 6*d.*).

62/31. *Anonymous.*—(1) **Terpenzene** is a coal-tar or petroleum distillate offered as a substitute for turpentine. (2) **Etching-spirit for Steel**:—

Nitrate of silver	ʒss.
Nitric acid	ʒvj.
Rectified spirit	℥ij.
Water to	℥vj.

Dissolve the nitrate in the water, add the acid, then the spirit, and mix.

61/44. *Mathios.*—**For Pharmaceutical Numismatists.**—Our correspondent sends us a rubbing of a small [?silver] coin, which has on the obverse "Nicholas. Lane. Apoth." and central figure [?Mercury]; on the reverse, "In Glocioter 1656," with "N.L." in centre. Will some of our numismatic subscribers say what they think of this? We have three or four rubbings to spare, and will send to anyone who can tell us if our forefathers in the craft were in the habit of doing a bit of coining on their own account.

61/67. *H. B.*—**Coloured Turpentine.**—The only aniline dyes which dissolve in turpentine are the oil-soluble ones.

61/56. *Glendower.*—**Freezing-mixtures.**—Those which you are working with cannot be improved upon. The duration of the cold produced depends upon the mass of the substances used, and the area and temperature of the space which the freezing-mixture surrounds and stands in. If the outside of the ice-chest is thickly covered by a poor heat-conductor, the low temperature will, of course, be longer maintained.

61/65. *Riah.*—**Hair-tonic**:—

Pilocarpine nitrate	gr. j.
Glycerine of borax	ʒiij.
Rose-water to	℥viij.

Mix.

This is the sort of thing you want, we believe. You can make the odour what you like.

59/67. *Vinum.*—**Unfermented Wines.**—There is no book published that we are aware of on the manufacture of unfermented wines. Are you sure that the wines which you have examined are unfermented? Some contain a fair proportion of alcohol.

60/41. *A Subscriber.*—**Concentrated Waters.**—What more information than is given in the Diary and in the Winter Number do you want?

62/60. *W. H.* and others.—**Headache-powders.**—We cannot report on your samples this week, but if you cannot wait until next week boil 1 gr. of the powder with ½ dr. of water, 1 drop of chloroform, and 10 drops of liq. potassæ in a test-tube. If you then get a highly-objectionable odour (isonitrile), you may come to the conclusion that the powder is acetanilide. Sometimes a little caffeine is added, in which case the aqueous solution gives a white crystalline precipitate with saturated solution of mercuric chloride. The absence of alkaline bicarbonate should, of course, be proved, and a drop of an acid will do that.

58/28. *Defendant.*— **Seidlitz-powders.** — Our correspondent writes :—" In the sixth edition of Martindale's Extra Pharmacopœia, page 350, 36 gr. tartaric acid is mentioned for the white papers for above powders. The B.P. Appendix and Squire say 37 gr. Do the later editions make the same error?" [Our copy of the B.P. "Additions" says, "Tartaric acid, in dry powder, 38 gr." So do the latest editions of "Squire" and "Martindale."]

52/35. *W. J. C.*—**Book on Dogs.**—The best is "Stonehenge on the Dog," published by Longmans & Co.

59/9. *Beta* (Cork).—We do not reply to anonymous correspondents.

59/11. *W. H.*—**Food-testing** is not dealt with in Mr. Procter's book. On that subject consult Pearmain and Moor's "Aids to Analysis of Foods and Drugs" (Baillière, 3*s.* 6*d.*) and Dr. James Bell's two volumes on "Foods," published in the South Kensington Museum series at, we think, 1*s.* 6*d.* or 2*s.* 6*d.* each. These can be got through Simpkin Marshall's or the Queen's printers.

INFORMATION SUPPLIED.

Subjoined are notes and formulæ received from subscribers. Similar information is always welcome.

41/44. **Indian-grass Oil.**—This is probably **Russa Oil** (*Andropogon Schœnanthus*). Can be obtained from Ferris & Co., of Bristol, and is mentioned by them in their "Therapeutic Notes" (page 174). W. CHALMERS.

Carbolic Tooth-powder.—*W. H.* (64 70) sends the following extract from the *C. & D.* for the benefit of S. Johnson, and also as a hint to correspondents to be a little more careful :—" The best basis for this is precipitated silica. When precipitated chalk is used the carbolic acid is slowly combined with the alkali, although it does not matter much, for 1 per cent. of the acid in a tooth-powder can really do little good as an antiseptic. An ounce of powdered soap, ½ lb. of the silica, with ½ dr. carbolic acid and 10 drops of otto of rose give an excellent dentifrice. Mix the ingredients well, and sift several times."—*C. & D.*, February 15, 1896

INFORMATION WANTED.

The Editor will be obliged for replies to the following from any who can furnish the information.

64/72. Who is the author of "Dangerous Substances, and How to Handle them"?

64/2. Hemolin: where obtainable?

63/53. Microscopic slides illustrating embryology: where obtainable on loan?

61/14. *Kimbolton* asks for particulars of new method of firing horses standing up (instead of casting them), strength of solution of cocaine used, and best method of applying the latter. Is it an improved method?

66/24 and 67/31. **Shop-hints wanted.** *Index* is extending his premises, and when completed wishes to create a little excitement and stir up business a bit. Wanted, some hints as to how to do this in a dignified sort of way, as by offering prizes and presents, or otherwise. What have brother chemists tried?

Agnoseo writes :—" Can some fellow-readers give me some idea of the best method of keeping stock of patent and proprietary articles? I live in a country market town, and have to keep a large quantity; but I cannot hit upon any satisfactory method of keeping stock so that I should be able at the end of each month to see exactly what I have in stock without counting each individual article from drawers, cases, &c."

Coming Events.

Saturday, March 13.

Pharmaceutical Football Club *v.* Crownfield, at Wadham Lodge Ground, Walthamstow. Kick-off at 3.30. Train from Liverpool Street to Wood Street, Walthamstow, at 2.17.

Tuesday, March 16.

Royal Institution, Albemarle Street, W., at 3 P.M. Professor A. D. Waller on "Animal Electricity."

Society of Arts, John Street, W.C., at 8 P.M. "The Progress of the British Colonies of Australasia during the Sixty Years of Her Majesty's Reign," by James Bonwick.

Midland Pharmaceutical Association. Smoking-concert at 8.30 P.M.

Royal Photographic Society, 12 Hanover Square, W., at 8 P.M. Photo-mechanical meeting. Novelties of interest will be shown.

Bradford Chemists' Association, Leuchter's Restaurant. Mr. Haller on "Chemists and their Discoveries."

Wednesday, March 17.

Brighton Junior Association of Pharmacy. Conversazione at the Royal Pavilion.

Western Chemists' Association (of London), Westbourne Restaurant, 1 Craven Road, W., at 9 P.M. Discussion on the proposed new by-laws of the Pharmaceutical Society, to be opened by the President.

Midland Chemists' Assistants' Association. Mr. F. Casson on "Antiseptic Dressings," at 9.15 P.M.

Plymouth and District Junior Chemists' Association, Plymouth Technical Schools, at 8 P.M. Mr. J. Burns-Brown, B.Sc., on "Heat."

Royal Microscopical Society, 20 Hanover Square, W., at 8 P.M. J. L. Williams on "The Formation and Structure of Dental Enamel"; A. E. Wright on "A New Method of Measuring and Counting Microscopic Objects."

Thursday, March 18.

Liverpool Chemists' Association. Annual dinner at the Adelphi Hotel, at 7.15 P.M. Tickets, 5*s.* each, from Mr. H. O. Dutton, Rockferry.

Chemical Society, Burlington House, W. The following papers will be read :—" The Atomic Weight of Carbon," and "A New Series of Miacosulphates of the Vitriol Group," by Alex. Scott, M.A., D.Sc.; "The Action of Alkylhaloids on Aldoximes and Ketoximes." by Wyndham R. Dunstan, F.R.S., and Ernest Goulding.

Chemists' Assistants' Association, 103 Great Russell Street, W.C., at 8.30 P.M. Mr. N. H. Martin, F.L.S., will read a paper on "Pharmacy: some of its Dangers and Duties."

Glasgow and West of Scotland Pharmaceutical Association, 94 West Regent Street, at 9.15 P.M. Mr. G. Coull, B.Sc, on "The Latin of Pharmacy."

Chemists' Club, 2 Farringdon Avenue, E.C. Smoking-concert at 8 P.M. Mr. C. W. Martin in the chair.

Friday, March 19.

Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland, 67 Lower Mount Street, Dublin, at 8 P.M. Dr. Johnston on "Antiseptics."

Cambridge Pharmaceutical Association, Prince of Wales Hotel, at 9.15 P.M. Discussion on the proposed new by-laws of the Pharmaceutical Society.

Aberdeen Junior Chemists' Association, 21 Bridge Street, at 9.30. Annual general meeting.

Saturday, March 30.

Royal Institution, at 3 P.M. Lord Rayleigh on "Electricity and Electrical Vibrations."

Thin Children, Anæmics, AND Consumptives

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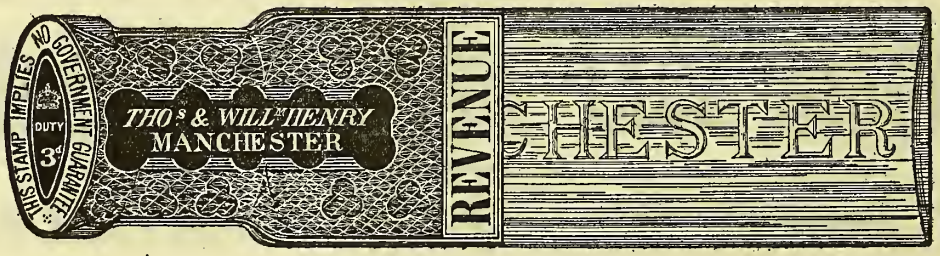

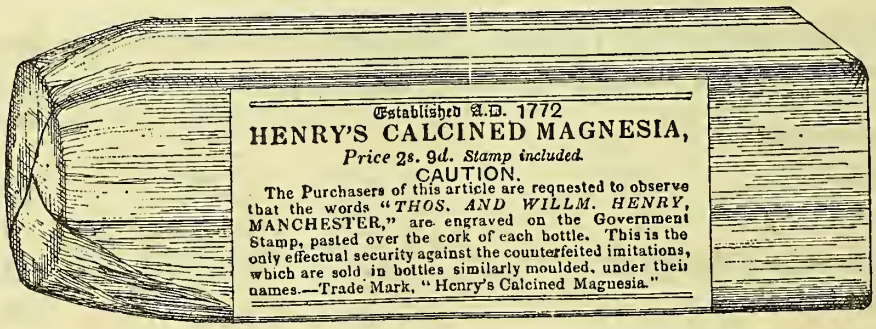

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Benzoic Acid & Benzoates.
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PURE AND CHEAP.

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Sulphate of Soda	trace
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Moisture	·82
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Acts more vigorously on starch than does Pepsin on proteids

Relieves AMYLACEOUS DYSPEPSIA.

Precautions to be observed in dispensing Taka-Diastase.—If Taka-Diastase is given in water, it should be in the form of a draught to be taken at once. This digestive agent is very active, and the presence of water causes it in a few hours to generate gases which give rise to a disagreeable odour; therefore it is not suitable for inclusion in the ordinary mixtures containing several doses. Acid should not be mixed with it. A neutral solution answers well. The best results are obtained with Taka-Diastase when it is taken at the **commencement** of a meal.

PEPSIN IS OF NO VALUE in ailments arising from FAULTY DIGESTION OF STARCH.

TAKA-DIASTASE is provided in Powder and in the form of Compressed Tablets of 2½ grains each.

Euthymol Tooth Paste

The Labels on both Tubes and Boxes are handsomely lithographed in three colours.

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"To the mind of the writer this preparation warrants specific mention, inasmuch as it offers the ideal of a dentifrice in that it is at the same time a powerful antiseptic, reasonably detergent, modest in price, pleasant in odour, and exceptionally grateful to mouth and gums, while last, but not least, its use affords a positive protection against foul breath and other conditions peculiar to the mouth that lead to retraction and softening of the gums, staining of enamel, formation of tartar, and decay; it is likewise a reasonably certain guarantee against a number of diseases which gain entrance to the human organism through germs in the mouth and digestive organs."—*Popular Science News*, August, 1896, page 190.

WRITE FOR SAMPLES AND LITERATURE.

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FAILURE in the administration of Cascara Sagrada is often due to the employment of an inferior preparation, or of one made from a spurious drug.

SUCCESS may be assured by remembering that—

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2. Medical reports proving its efficacy have almost invariably been based upon the use of OUR products.
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The eight preparations mentioned on this page are not secret remedies. They retail at 4s. 6d. per bottle, except

CACTINA PILLETS, 1s. 6d.,

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PINUS CANADENSIS, 7s.,

per bottle.

They leave a good profit to the retailer.

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An uterine tonic and restorative, prepared from the root of *Aletris farinosa*, in combination with aromatics.

CACTINA PILLETS.

Cardiac tonic stimulant, prepared from cactina, the active principle of *Cactus grandiflora*. Each pillet = $\frac{1}{100}$ grain of cactina.

CELERINA.

Nerve tonic, stimulant and anti-spasmodic. Every fl. dr. represents gr. v. each of celery, kola, coca, viburnum and aromatics.

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An hepatic stimulant. From *Chionanthus virginica*.

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Non-irritating mucous astringent. Made in two varieties dark, for internal, and white, for external, use.

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A powerful digestive secernent, representing the active constituents of the root of *Panax Ginseng*.

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Uterine Tonic and Restorative.
Retail, 4s. 6d. per bottle.

LITERATURE and FORMULÆ ON APPLICATION.

I

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Nerve Tonic, Stimulant, Antispasmodic.
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3/9 per doz.
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7/6 per doz.
6 doz. 7/-, 12 doz. 6/6 per doz.

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In 1/1½ and 4/6 boxes of 20 and 100 capsules respectively, each containing equal to 30 drops of Fluid Extract. Price 10/- and 40/- per dozen.

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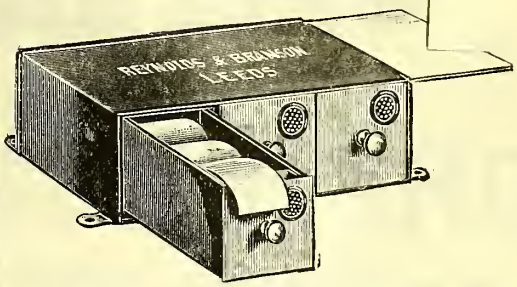

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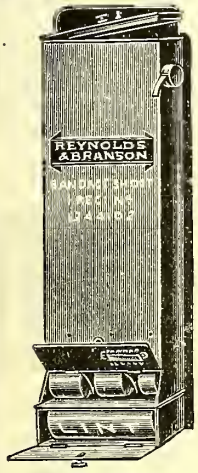

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2 Arm or Leg Splints with Socket to make Thigh Splint.

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Size, 37 inches long by 7 inches wide.

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in Bulk
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BLUE LABEL. Per lb. 10d. Per cwt. 85s.

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Also put up in 1-lb., ½-lb., and ¼-lb. Round Blue Bottles, corked, or in 6-oz. and 8-oz. Blue Flats, lettered, patent stoppered or wood top corks.

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(Lemon, Lime Fruit, or Raspberry flavour and tint if desired.)
Also in 4-oz. Tins,
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CITRATE OF MAGNESIA, Raspberry Flavour, tinted	1/-	70/-
" " *Lime Fruit Flavour*	1/-	70/-
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(3.) "Name and address of retailer printed on them."—*British Trades Journal.*

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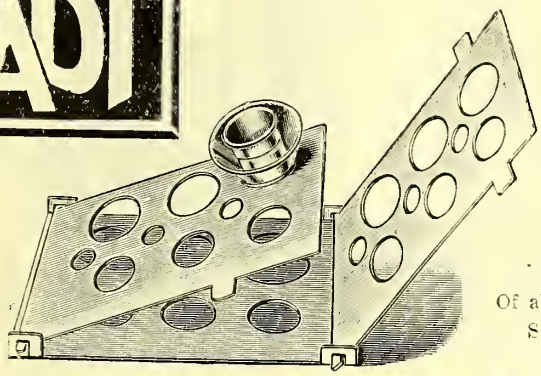

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LOFTHOUSE & SALTMER,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and send samples of our superior Nos. 1, 2, and 3 qualities of CITRATE OF MAGNESIA.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Blaud's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

DAVY, HILL & SON, YATES & HICKS

(ESTABLISHED A.D. 1755),

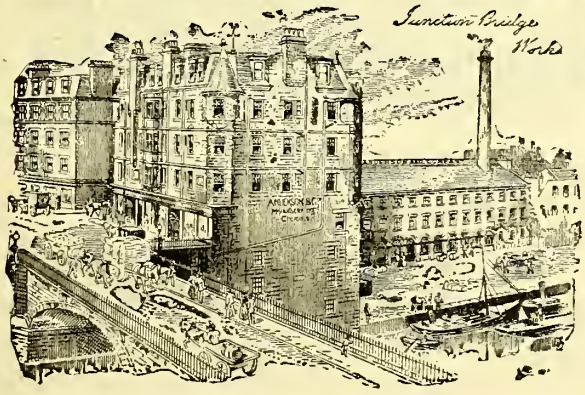
Wholesale and Export Druggists and Manufacturing Chemists,

101 & 103 SOUTHWARK STREET, LONDON.

SELECTED DRUGS, PURE CHEMICALS, & PHARMACEUTICAL PREPARATIONS.

PRICE LIST ON APPLICATION.

Telegraphic Addresses .. .. .. "ASHILL LONDON" and "ICKDAVY LONDON."



EXTRACT OF MALT

HOME.] AND [EXPORT.

ITS COMBINATIONS.

GUARANTEED ABSOLUTELY PURE AND OF HIGH DIASTASIC VALUE.

TRIAL ORDER SOLICITED.

ANDERSON & CO., Wholesale Manufacturing Chemists, EDINBURGH.

YORK

is still the centre towards which all

Up-to-Date Merchants & Exporters

look for reliable supplies at modern prices of

Mag. Cit. Gran.
In 2-cwt. Cases for Export.

SPECIAL EXPORT LINE.
¼-lb., ½-lb., and 1-lb. Air-tight Decorated Tins, at **36/-**, **62/-**, and **108/- Gross.**

Baking Powder.
In 2½-cwt. Cases for Export.

SPECIAL EXPORT LINE.
¼-lb., ½-lb., 1-lb., and 2-lb. Air-Tight Decorated Tins, at **24/-**, **44/-**, **76/-**, and **150/- Gross.**

Saline.
In 2½-cwt. Cases for Export.

SPECIAL EXPORT LINE.
¼-lb., ½-lb., and 1-lb. Air-tight Decorated Tins, at **30/-**, **57/-**, and **102/- Gross.**

Pearl-Coated Pills.
In Air-tight Tins, of any size, for Export.

SPECIAL EXPORT LINES.
Little Liver Granules: Bottles of 40, each in elegant Wrapper with Customer's Name, **30/- Gross.**
Blaud's Pills: 1 gross in Amber Triangular Bottles, **60/- Gross.**
Pink Iron Pills: ½ gross in Bottle, **60/- Gross.**

Sticky Fly Papers.

"The Spider" is now spread on special parchment, and hermetically sealed, and is the only Sticky Fly Paper suitable for *Export to the Tropics.* **7/- Gross.**

Brown Boot Polish.
We are Exporting this regularly to the Tropics, and it gives unqualified satisfaction.

SPECIAL EXPORT LINE.
4-oz. Stone Bottles, each in Carton, **38/- Gross.**
4-oz. Collapsible Tubes, each in Carton, **40/- Gross.**

Ballroom Floor Polish.
The acme of Convenience and Portability. Rapidly becoming one of the "Staples" of Export Merchants.

SPECIAL EXPORT LINE.
Fancy Decorated Tins, with Dredger Tops, **72/- Gross.**

For Samples and further Particulars write

Bleasdale, Limited

ESTABLISHED 1780. **YORK, ENGLAND.**

RECENT LETTERS FROM CHEMISTS ABROAD.

South Africa, 18th June, 1896....."As far as Packed Goods are concerned, yours are getting more popular every day."

Colombo, 18th August, 1896... . ..."I am nearly out of stock of your goods; Lorimer's is a word well known now all over the place."

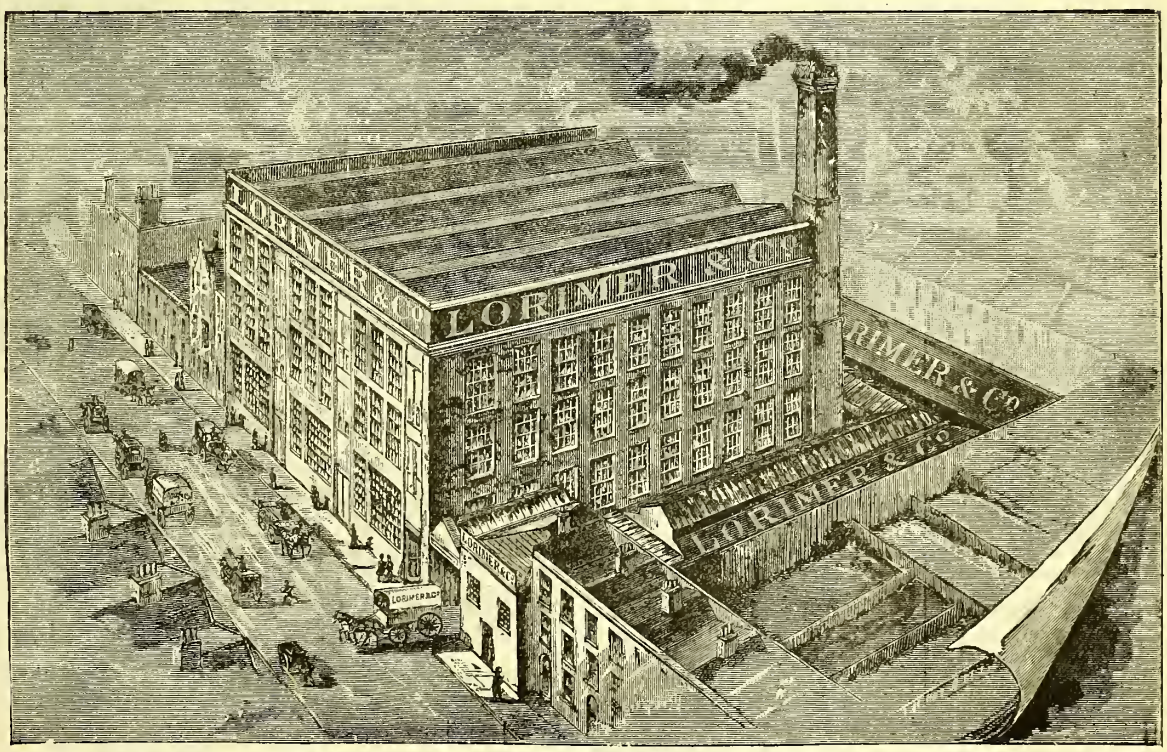
West Australia, January 14th, 1897....."Concerning your goods I am well pleased, and consider the general 'get-up' equal to any in the world. . . . I have pleasure in enclosing you another order, and shall be glad if you will place in hand at once, as I want the goods by next P. and O. or Orient Mail Steamer."

Transvaal....."Messrs. ——— & Co.'s traveller is here, and finds, to his annoyance, your name all over the place. However, I could honestly assure him that ten times more of yours than of their goods can be sold."

The Originals, with many others from Chemists, may be seen at our Offices.

WE ARE Manufacturers of Granular Effervescing Preparations, Scaled Preparations, Extract of Malt, Medicated Lozenges, Coated Pills, Medicated Wines, Soluble Capsules, and all Pharmaceutical Preparations. . . . Proprietors of Lorimer's Syrup of Hypophosphites, "Gold Medal" Chemical Food, Iodised Oil (Patent), Lorimer's Coca Wine, "The Perfect" Castor Oil, Coca Jelly (Patent). . . . Originators of packed Specialities bearing Chemist's own name. We pay special attention to QUALITY, ATTRACTIVENESS, and NOVELTY, and were awarded SIX GOLD and PRIZE MEDALS for our preparations the only year we ever exhibited.

ILLUSTRATED PRICE LIST ON APPLICATION.



LORIMER & CO.

Britannia Row,

LONDON, N.

Established 1870.

Telegraphic Address:—
"CALISAYIN LONDON."

Telephone No. 7524.

DR. SCOTT'S BILIOUS & LIVER PILLS.

The Proprietors of the above well-known Pills have decided in the interest of the Retail trade to stop all further cutting and allow a reasonable profit, and in so doing hope to secure the goodwill and co-operation of all respectable Chemists and Druggists.

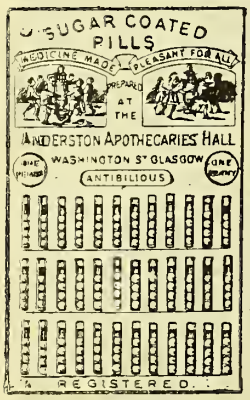
A GOOD PILL and GOOD PROFIT.

1/1½ size	Wholesale Price,	*10/-*	per dozen.
,, ,, ...	Minimum Retail Price,	*1/-*	,, box.
2/9 ,, ...	Wholesale Price,	*24/-*	,, dozen.
,, ,, ...	Minimum Retail Price,	*2/6*	,, box.

The proprietors will be obliged if Chemists will report all cases of Cutting to

THE SECRETARY, PROPRIETARY ARTICLES TRADE ASSOCIATION,
2 and 3 STONECUTTER STREET, E.C.,
who will see that the Cutting is stopped or supplies withheld.

Messrs. LAMBERT & CO. will be pleased to supply Handbills, with Name and Address, CARRIAGE PAID, on receipt of Business Card direct to 173 Seymour Place, London, W.



SUGAR-COATED PILLS

COMPOSED OF THE PUREST DRUGS

At Lowest Prices consistent with quality.

SOLUBLE, RELIABLE IN ACTION, PERMANENT.

Speciality—Private Recipes.

Send for Samples, Quotations, and Price List to

THE SCOTTISH SUGAR-COATED PILL COMPANY,
THE ANDERSTON APOTHECARIES' HALL, WASHINGTON ST., GLASGOW.

CHEMICAL DISINFECTANT.
10 and 15% CARBOLIC Antiseptic and Deodorising Powder.
Bags and casks free.
AGENTS WANTED to supply Corporations and large users.
SOLUBLE **SANITARY FLUID**
In Casks, and in 2, 1, and ½ gallon Tins.

CHESHIRE BIRD LIME.
In 1d., 2d., 3d., and 6d. tins. Also in 1, 2, 3, and 7 lb. Tins & Casks, for large consumers and the trade.
FLY PAPER MATERIALS
Supplied in Wholesale quantities
SPECIAL TERMS.

"COAGULINE"
(TRADE MARK).
Transparent Cement for Broken Articles.
CUE CEMENT.
CUE-TIP FIXERS
(Brass or Wood).
TIPS, WAFERS, CHALKS.

A NEW WHITE CEMENT,
Inorganic and almost Hydraulic.
KLINX
TRADE MARK.
FOR STONE, PORCELAIN, POTTERY, AND ALL VITREOUS SUBSTANCES.
Requires no preparation.
Easy and clean in application.

Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets, &c., &c., on application.

KAY BROTHERS LIMITED. Laboratory and Works, ST. PETERSGATE MILLS, **STOCKPORT.** Founded A.D. 1788 Incorporated 1887.
126

PILLS NEVER EXCELLED!! PILLS

Quality the Strong Point.

WAND'S SOLUBLE PEARL-COATED PILLS.

RELIABLE Pills, Pearl-Coated, any ***Colour*** or ***Silvered,*** are ***WAND'S*** Speciality. Colonial, Foreign, and Home

Trade GROWING. For months past we have been reluctantly refusing orders. This inrush of new trade compelled the Building of a ***New Factory,*** fitted with ***New Engine*** and ***Newest Appliances,*** equal in output to many tons of Pills per year.

We are now in full working order, and solicit your favours, assuring you that Quality is our Strong Point and First Thought.

Ingredients are the Best.

Strength the Highest.

Price Lowest,

Quality of Drugs considered.

RELIABLE PILLS are WAND'S only make.

Orders for Cheap Pills from Cheap or Weak Drugs we do not accept.

Unsolicited Praise is frequently expressed by the Medical Profession and the Drug Trade in favour of

WAND'S SOLUBLE PEARL-COATED PILLS.

IN GROWING DEMAND.

WAND'S MEDICATED SUPPOSITORIES.
,, ,, BOUGIES.
,, ,, PESSARIES.
,, CACHETS.
,, COMPRESSED TABLETS.

PILLS **WAND, PILL FACTORY, LEICESTER, ENGLAND.** PILLS

DAVIES, GIBBINS & CO.

(For upwards of 20 years with John Richardson & Co., Leicester, Limited),

BRIDGE STREET, DERBY.

SOLUBLE PEARL-COATED PILLS

AND

FLEXIBLE GELATINE CAPSULES.

Special NET prices.

Pil. Ferri Blaud, in 10-gross tins, 3½d.; 100-gross tins, 3d. per gross.
In 1-gross metal-capped bottles, 52/- per gross.
Little Aperient or Liver Granules, in metal-capped tubes (40 in each), coated white, 30/- per gross.

APERIENT PILLS.

			10-gross lots.	100-gross lots.
No. 32.	Ext. Aloes Aquos	℈i.		
	Pulv. Cambog.	gr. iv.		
	„ Jalapæ	„ viii.		
	„ Colocynth	„ vi.		
	Hyd. Subchlor.			
	Pulv. Sapo. Hyspan ...	aa „ iv.		
	Gingerin	„ ii.	5*d.*	4*d.*
	Ft. Pil. xii.			

"LITTLE" APERIENT PILL.

„ 265.	Aloin	gr. $\frac{1}{10}$		
	Podophyllin	„ $\frac{1}{5}$		
	Ext. Hyoscy.	„ $\frac{1}{20}$		
	Jalapine	„ $\frac{1}{10}$		
	Ext. Nucis Vom.			
	Capsicine	aa „ $\frac{1}{20}$	5*d.*	4*d.*
„ 1.	Pil. Aloes et Ferri, P.B. ...		5*d.*	4*d.*
„ 2.	„ „ Myrrh, P.B. ...		1/-	11*d.*
„ 4.	„ Colocynth Co., P.B. ...		10*d.*	9*d.*
„ 5.	„ „ et Hyoscy., P.B.		1/-	11*d.*
„ 8.	„ Ipecac. et Scillæ, P.B. ...		6*d.*	5*d.*
„ 10.	„ Rhæi Co., P.B.		5*d.*	4*d.*

BLAUD'S c. ARSENIC.

„ 140.	Pil. Blaudii	gr. v.		
	Acid. Arseniosi	„ $\frac{1}{50}$	5*d.*	4*d.*
„ 141.	Pil. Blaudii	„ v.		
	Acid. Arseniosi	„ $\frac{1}{100}$	5*d.*	4*d.*
„ 142.	Pil. Blaudii	„ v.		
	Ferri Arsenias	„ $\frac{1}{36}$	5*d.*	4*d.*
„ 143.	Pil. Blaudii	„ v.		
	Ferri Arsenias	„ $\frac{1}{50}$	5*d.*	4*d.*

DANDELION PILLS.

			10-gross lots.	100-gross lots.
No. 272.	Ext. Taraxaci			
	„ Anthem			
	Pulv. Rhei	aa gr. i.		
	„ Aloes Barb.			
	„ Zingib.	aa „ ss	6*d.*	5*d.*
	Ol. Carui	„ ½		

TIC PILLS.

„ 208.	Quineti			
	Ferri Sulph.	aa gr. ss		
	Ext. Belladon.	„ ¼		
	„ Colchici Acet.	„ ss		
	„ Hyoscyami			
	Camphoræ	aa „ i.	1/-	11*d.*

TONIC PILLS.

„ 131.	Ferri Sulph.	gr. i.		
	Ext. Gentianæ	„ iii.	5*d.*	4*d.*

PENNYROYAL PILLS.

„ 247.	Ol. Pulegii	gtt. ⅛		
	Pil. Aloes et Ferri	gr. iv.	6*d.*	5*d.*

QUININE PILLS.

„ 250.	Quininæ Sulph.	gr. i.	8*d.*	7*d.*
„ 251.	„ „	gr. ij.	1/2	1/-

PERMANGANATE OF POTASH PILLS.

„ 242.	Potass. Permang.	gr. i.	6*d.*	5*d.*
„ 243.	„ „	„ ij.	9*d.*	8*d.*

FLEXIBLE GELATINE CAPSULES.

Bals. Copaibæ, min. 10	8/6	per 1,000;	in boxes containing	36,	5/6 per doz.
Blaud's=two pills	13/-	„	„ „	30,	7/3 „
Cascara Sagrada=½ drachm Liq. Ext. ...	12/6	„	„ „	30,	7/3 „
Compound Senegæ	14/-	„	„ „	24,	7/3 „
Copaibæ, Cubebæ, and Santal.	22/-	„	„ „	36,	12/- „
Creasote, min. 1	8/6	„	„ „	36,	5/6 „
„ „ 2	11/-	„	„ „	36,	6/6 „
Guaiacol, „ 1	12/6	„	„ „	36,	8/6 „
„ „ 2	14/-	„	„ „	36,	10/6 „
Ol. Santal. Flav., min. 10 (English warranted)	32/-	„	„ „	24,	12/- „

SPECIAL RATES TO LARGE BUYERS.

"EFFERVESCENTS"

(Wm. R. Warner & Co.)

LITHIA

An elegant, portable, and effectual remedy in **Gout, Rheumatism, Gravel, Stone in the Bladder, Eczema, Bright's Disease, &c.** In compressed Lentiforms, each containing five grains of Citrate of Lithia, and affording a convenient method for administering a definite quantity of soluble Lithia in a pleasant form, besides the advantage of having fresh water with each dose; presenting a therapeutic value of a higher standard than the various spring waters, which oftentimes contain but an indefinite quantity of the necessary salt.

Our Compressed Lithia Lentiforms are convenient for the preparation of artificial Lithia water, useful in the treatment of sub-acute and chronic cases of Rheumatism, Rheumatic Gout, Uric Acid, Diathesis, Renal Calculi composed of Uric Acid, and Irritable Bladder from excess of acid in the urine. The dose of artificial Lithia water as prepared from Warner & Co.'s Compressed Lentiforms can be regulated very readily by dissolving one or more in any desired quantity of water, from a tumblerful to a pint, quart, or gallon, as may be indicated. Per Bottle, **1s. 3d.**

BROMO LITHIA

GRANULAR EFFERVESCENT BROMO-LITHIA.—*Each Dessertspoonful contains*—℞ *Salicylate Lithia*, 10 *grs.*, *and* ℞ *Bromide Soda*, 10 *grs.*—Bromo-Lithia is an extremely potent and palatable effervescent combination of the above ingredients. Physicians appreciate its value in the treatment of those affections for which Lithia is prescribed. Bromo-Lithia is originated by W. R. Warner & Co. It consists of Salicylate Lithium, 10 grs., and Bromide Sodium, 10 grs., in each dessertspoonful.

It will be found to possess advantages over Salicylic Acid, combining, as it does, the potency of Lithium with Salicylic Acid as well as the sedative properties of Bromide of Soda.

Bromo-Lithia (Warner & Co.), being an effervescent salt, furnishes an *elegant* and *convenient* form for applying Dr. Garrod's methods. Per Bottle, 3s. 6d.

VICHY

EFFERVESCENT VICHY LENTIFORMS.—Replacing the Bottled Spring-Waters, which are cumbersome and often of doubtful strength medicinally.—These Lentiforms present the remedy in a portable, economical, and pleasant form, and ensure a definite strength at all times. To prepare a draught as of the natural water, dissolve one Lentiform in a glass of pure water and drink while effervescing. For a warm draught use tepid water. Per Bottle, **1s.**

COMPRESSED LITHIA AND VICHY LENTIFORMS.—The large compressed tablets known as "Lentiforms" are especially suitable for the extempore preparation of effervescent mineral waters, and Warner's Effervescent Lithia and Vichy Lentiforms, specimens of which have been sent by Messrs. F. Newbery & Sons, seem well adapted for presenting the remedies in a portable, economical, and pleasant form, besides ensuring a definite strength at all times. The Lithia Lentiforms contain 3 grains (or 5 grains) of lithium citrate each, and the Vichy Lentiforms are intended to replace the bottled spring waters. Since their first introduction the Lentiforms have been materially improved, and they are now capable of preservation for a much longer period than formerly, without impairment of their medicinal qualities. (*Pharmaceutical Journal*, June 20, 1896.)

BROMO SODA

(REGISTERED.)

"I have used Effervescing Bromo-Soda very extensively, and can cheerfully recommend it to my professional brethren. The addition of the grain of Caffein Hydrobromate to the 30 grains of Sodium Bromide I think a most happy idea. I recommend your Bromo-Soda because I have used Sodium Bromide for years instead of the Potassium Bromide. Sodium Bromide is not a foreign salt in the system, is much less depressant, can be used where the heart is extremely weak, and does not impair the integrity of the muscular tissue; does not cause bad breath, neither does it cause acne, nor impair pharyngeal sensibility. It is much more palatable, and has the happy faculty of agreeing with the stomach, where the corresponding Potassium Salt often gives us so much trouble. I find Effervescing Bromo-Soda very valuable in cases superinduced by over-work of a mental kind; in fact, at times when over-worked, I have refreshed myself with a little in water.

"I use Effervescing Bromo-Soda in dessertspoonful rather than teaspoonful doses, desiring to spare myself the necessity of repeating. I put this quantity in a glass not quite half full of water, order it drunk while effervescing, and find it to operate as if by magic."—J. K. Bauduy, M.D., LL.D Per Bottle, 3s. 6d.

'UP-TO-DATE' PHARMACISTS are invited to note the fact that Special Literature, treating of the selected Preparations above named, is periodically Mailed to Medical Men. What the doctor prescribes, the patient must have; and this is just what the 'up-to-date' man will always be ready to sell.

SOLE DEPOT IN GREAT BRITAIN—

F. NEWBERY & SONS,

Chemists are invited to send for new and full list of W. R. Warner & Co.'s Soluble Coated Pills and other "Galenicals," revised to current date, with complete formulæ.

Chemists are reminded that during the season for effervescents, Bromo-Soda and the various Salines of W. R. Warner & Co. are in frequent request for is pensing.

1 & 2 KING EDWARD STREET, LONDON, E.C.

BEECHAM'S PILLS

IN £5 LOTS.

Complying with the voice of the majority of the Trade, the Proprietor of **BEECHAM'S PILLS** has reduced the minimum limit of orders to Five Pound Lots, and hopes this may be generally acceptable.

The new arrangement came into force on January 1st and the prices are now as follows:—

BEECHAM'S PILLS.—	*9½d. size (36 pills)*	... ...	*7/- per dozen, net.*
	13½d. „ (56 pills)	... ...	*9/6 „ „*
	2/9 „ (168 pills)	... ...	*25/- „ „*

No orders executed below £5 value. These prices are the lowest, no matter what quantity is ordered.

BEECHAM'S TOOTH PASTE (in collapsible tubes).—1/- size ... per dozen. net. 7/6

Packages free. Carriage NOT paid.

Cash must in all cases accompany orders, which, with requisitions for advertising matter, must be addressed—

THOMAS BEECHAM, ST. HELENS, LANCASHIRE.

MAGNESIA

CARBONATE, CALCINED, AND HYDRATE.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 17 Great Tower Street, London, E.C.

BARRON, HARVEYS & CO.

GILTSPUR STREET, LONDON, E.C.,

beg to inform their friends and the Trade generally that, having purchased the Business of

BARRON, SQUIRE & CO., BUSH LANE,

and also the various Formulæ of the Special Preparations of

JAMES BASS & SONS, HATTON GARDEN,

they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

Specimens of these Preparations have remained in the Museum of Kew Gardens during 28 years without deterioration

100 YEARS' REPUTATION

KEARSLEY'S

Original Widow Welch's Pills.

UNIVERSALLY ACKNOWLEDGED TO BE *THE GENUINE.*

RETAILERS MAY SAFELY RECOMMEND THEM.

Prices to the Trade.

	PER DOZ.
13½d.	9/6
2/9	23/-

13 to the doz of the 2/9 size.

The Original Widow Welch's
FEMALE PILLS.
Prepared by C. & G. KEARSLEY,
Of 17, North Street, Westminster.
Price 1s 1½d. & 2s. 9d. Stamp Duty included

FAC-SIMILE OF LABEL.

Minimum Re-selling Prices.

13½d.	1/-
2 9	2/6

LIVING PROFITS GUARANTEED.

The Retailer knows that KEARSLEY'S are THE GENUINE, and we trust the trade will explain this to all Customers who ask for Cheaper Imitations.

SPECIAL QUOTATIONS TO SHIPPERS AND FOR LARGE QUANTITIES BY APPLICATION TO C. & G. KEARSLEY.

Supplied in Bottles for Export, 2/9, 13 to doz., same terms as Boxes.

N.B.—CHEMISTS CAN HAVE 250 USEFUL WRAPPERS (LARGE SIZE), WITH THEIR NAMES & ADDRESSES PRINTED ON THEM, SENT FREE BY APPLICATION TO C. & G. KEARSLEY, 17 NORTH STREET, WESTMINSTER, S.W.

157,810.

DR. BOW'S LINIMENT.

Of late a spurious article has been offered for sale, put up in imitation of the genuine one even to copying the Pamphlet, Wrapper, and Labels. To protect the public from, and facilitate proceedings against, such frauds, the Proprietor has registered the Trade Mark here shown, a reduced copy of which will be found on the outside label on every bottle put up after this date. As a further security, the name "DR. BOW'S LINIMENT" (also a Trade Mark) appears in the Government Stamp.

BARCLAY & SONS, LIMITED, LONDON
RAIMES, CLARK & CO., EDINBURGH & YORK

For the Proprietor,
December 1st, 1891.

NEPENTHE.

THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION.

PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedative *par excellence*. "Nepenthe" is registered under the Trade Marks Act, and is our sole property. *No other preparation* should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also *Double Strength Nepenthe*, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

PRICES AND TERMS ON APPLICATION.

FERRIS & CO., WHOLESALE AND EXPORT DRUGGISTS, **BRISTOL.**

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TRADE MARK.

Telegrams—"PHARSALIA." Telephone No. 2759 (Gerrard).

JOHN SANGER & SONS

DEALERS IN

Proprietary Medicines, Druggists' Sundries, Perfumery, Mineral Waters, Lozenges, Surgical Instruments, &c., &c.

X NEW CATALOGUE, NOW IN PREPARATION, WILL BE SENT POST FREE ON RECEIPT OF BUSINESS CARD. X

MARQUE DE FABRIQUE DÉPOSÉE

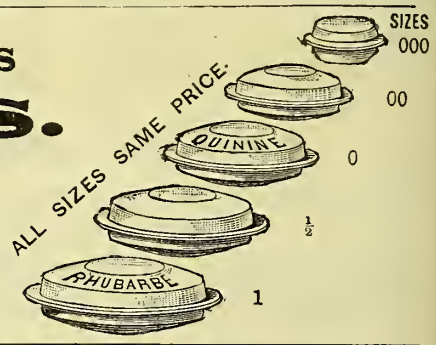
J. DIGNE & CO.'s CACHETS.

(CAPELLIFORMES.)

3/3 per 1,000 (2/9 net).

1,000 at a time, 3/- (2/6¾ net).

Write for Samples, which we will send post free.



WAREHOUSE & SHOWROOM: 2 WINSLEY STREET, LONDON, W.

COUGHS.—AMERICAN CHERRY PECTORAL,

FOR THE CURE OF

COUGHS, COLDS, INFLUENZA, HOARSENESS, BRONCHITIS, INCIPIENT CONSUMPTION, and affording the greatest relief in advanced stages of the Disease.

In Bottles at 1*s.* 1½*d.*, 2*s.* 9*d.*, 4*s.* 6*d.*, and 11*s.*

Also CHERRY PECTORAL LOZENGES FOR COUGHS, &c.

1*s.* 1½*d.* and 2*s.* 9*d.*, free by post.

BRADLEY & BOURDAS, 48 Belgrave Road, & 6 Pont St., Belgrave Sq., London, S.W.

And may be had of all Chemists. Telegraphic Address—"Bourdas London."

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH,

ESTABLISHED 1877. 12 PALL MALL EAST, LONDON, S.W. *Telegraphic Address "DARQUE LONDON."*

SOLE AGENTS FOR

Trade Mark Regd.

DR. WARLOMONT'S CALF VACCINE

TUBES, 2/-; HALF-TUBES, 1/- each.

POMADE FOR EXPORT, 5/-, 10/-, 20/- each.

Every Antiseptic precaution most carefully observed. Special terms for Quantities

PIN-POINTS GRATIS WITH VACCINE WHEN REQUESTED.

HUMAN VACCINE, from Healthy Children only, microscopically examined, and source quoted. Tubes, two-thirds full, 1/8 each; one-third full, 1/-. Tubes two-thirds full (in every respect equal to those mentioned above, but without source) in quantities for export, £5 per 100.

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BOX'S PILLS

Re-christened by the Americans

"THE GREAT ENGLISH REMEDY,"

Grapple with and triumph over disease with perfect ease.

Price 1/1½, 2/9, 4/6, 11/-, and £1 1s. per box.

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For BOTTLE PREPARATIONS requiring to be well presented; and for neatly packeting Tablets, Lozenges, Powders, &c. Each box printed from design, in one or several colours. Also in plain, neat type arrangements. All of best class work.

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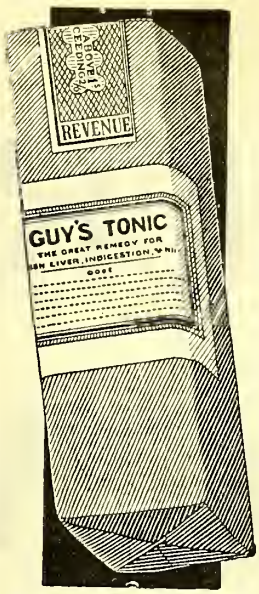

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The following are the statements in question:—

It Rapidly goes off ... ... by rail.
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It Contains No Cod-liver Oil ... taste or smell.
It Spoils the Sale ... ... of inferior kinds.
Adulterated by 50 per cent. ... of matter other than Oil.

In spite of the truth of these allegations, Kemp's Cream Emulsion of Cod-liver Oil is a good line to adopt.
It creates a sale for Emulsion in districts hitherto known for their non-Emulsifying tendencies.
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It is now put up in 7 different sizes and styles ready for sale, and buyers' names printed on labels free for 3-doz. lots and upwards. Samples and Illustrated Circular free on application.

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The Hon. Surgeon to his Excellency the Viceroy of India prescribes "CLARKE'S BLOOD MIXTURE" largely, and speaks highly of its efficacy in skin affections, &c.—A. JOHN & CO., Chemists, &c., Agra, India.

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THE LINCOLN & MIDLAND COUNTIES DRUG CO. LINCOLN, ENGLAND.

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To Foreign Buyers.

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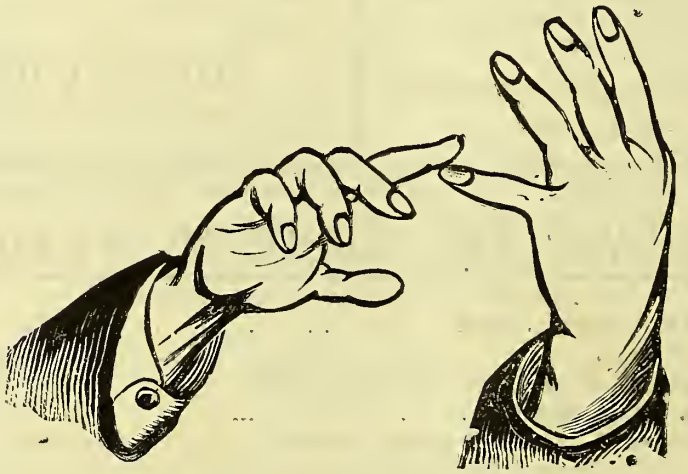

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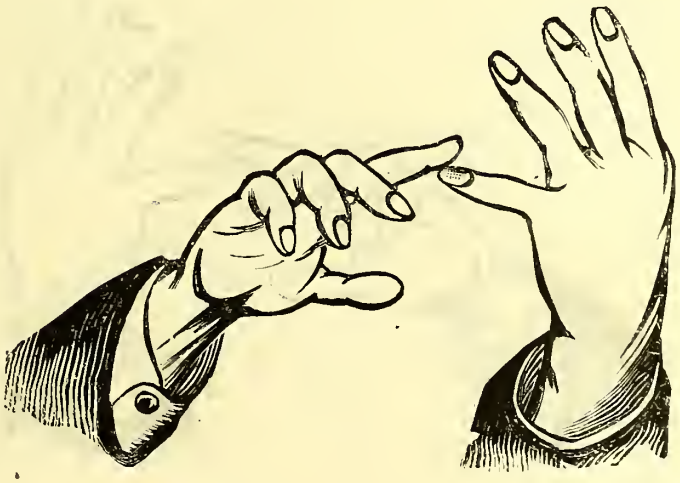

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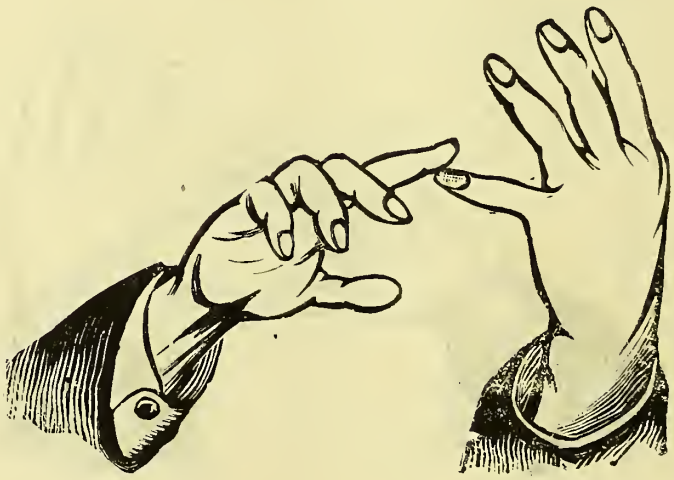

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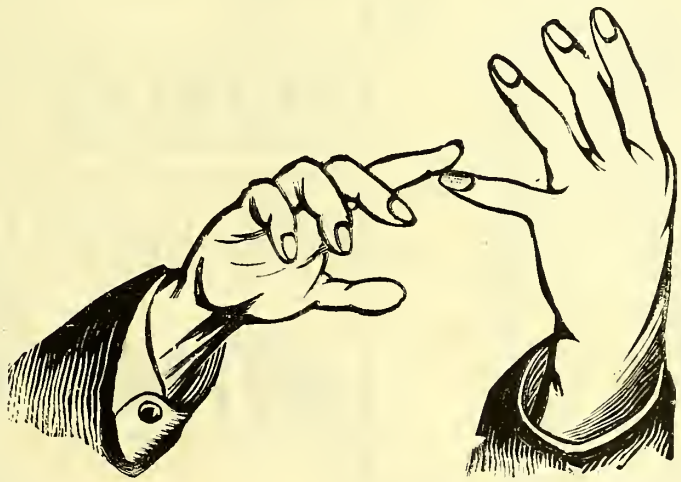

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CASTOR OIL

The *Lancet* of 8th June, 1895, says:—"MITCHELL'S PROCESS of extracting and refining Castor Oil is obviously an improvement which the profession cannot fail to approve and welcome, since in removing the great objection to the Oil—namely, that of repulsive taste, as well as in securing its full therapeutic effect—it is calculated to assist and to facilitate the administration of a very valuable therapeutic agent."

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Put up in 2, 4, & 8 oz. bottles, to be retailed at 6d., 9d., & 1s.

Also supplied in
WINCHESTERS at low prices, which will be forwarded on application

FOR PARTICULARS AS TO DISCOUNTS, &c., APPLY

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MENTHOL CONES!!!

3/6
PER DOZ.
Stand included.

Very Attractive for Counter
Will Increase your Sales.

EVERY Chemist should at once order a dozen (No. 47) "Castle" shape Menthols, and secure one of these Stands. The boxwood cases pack away inside the body of the Castle When Menthols are sold it will be found most useful for showing your own Specialities. With *every* dozen we give a Stand, so order two or three and you will find them most useful in other ways. So long as you show the Cones on one stand we don't mind how you utilise the others.

Of all Sundries Houses, and of the Manufacturers—

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BOTANIC DRUGS

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(Your name, &c., on the Packets free. Style, Size and Price are the first.)

FLUID & SOLID EXTRACTS

Reliable quality, **Reasonable** price.

DRUGS, &c., for Veterinary Preparations

Low Price, Freshly Ground, guaranteed genuine. **Extra Special offer in Cayenne Peppers.**

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Guaranteed pure, packed in tins, with Customer's name and address on the labels free, if desired.

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OF EVERY DESCRIPTION.

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Write us, stating wants (however small) in this line, and compare our prices with others. All goods Carriage Paid.

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MESSRS. TUNBRIDGE & WRIGHT, Reading, the Proprietors and Manufacturers of the world-famed "Fly Cemetery," beg to announce that they have purchased the business of the "VIKO" MANUFACTURING CO., Dover, which they will henceforth carry on in conjunction with their Fly Paper business at Castle Street, Reading, to which address all communications should be sent. The Proprietors wish to state that "Viko" is an insect destroyer of a very unique composition, and has a most marvellous effect upon insect life, whilst, at the same time, it is perfectly harmless to animals. The well-known success which has attended the sale of Tunbridge & Wright's "Fly Cemetery" (due to their efficiency) should be a sufficient guarantee to the Trade that they would do well to stock "Viko" as there is money in it.

"VIKO" for Cockroaches.
"VIKO" for Moths.
"VIKO" for Fleas.
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As a Preventive against Moth is Unrivalled. "It really has no equal." If sprinkled amongst Furs and Clothes it instantly destroys any existing insect life and ensures perfect freedom from a return of the pest.

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TUNBRIDGE & WRIGHT, Manufacturers, READING, ENGLAND.

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Catarrh Cure
SMELLING BOTTLE.

Dealers in Patent Medicines should always Stock

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It is well got up, sells at sight, bears a large profit, and wherever introduced has a rapid sale, giving satisfaction to both buyer and seller.

Sent out in Fancy Cardboard Boxes containing half a dozen bottles.

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May be obtained from all Wholesale Patent Medicine Warehouses.

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Antiseptic. Non-Poisonous. Non-Irritating.

IZAL is an emulsion of Izal Oil. Mixed with 200 parts of water it gives an antiseptic lotion which is non-irritating, non-poisonous, and very much more powerful and persistent in its action than pure Carbolic Acid on account of the insolubility and low volatilisation point of the Oil.

Izal has now been in use in several of the large hospitals for 2 or 3 years, and all that is claimed for it has been amply confirmed.

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As a general disinfectant, for economy and pleasantness, Izal is second to none; and its persistent and non-poisonous properties have already rendered it invaluable in the cleansing of Bakehouses.

IZAL for medical use is indicated as an internal antiseptic, and should be employed in Typhoid Fever and specific diseases, since it has been shown that, although itself non-poisonous, Izal has the power of destroying the effect of the noxious alkaloidal products of Bacteria.

IZAL should be employed in Phthisis not only as a disinfectant, but also medicinally, with a view of combating the micro-organism in the tissues, and arresting the disease.

IZAL OINTMENT is *par excellence* the antiseptic application of the future. It is cooling and antipruritic, as well as antiseptic.

In skin diseases it is invaluable, for there is hardly a case of skin disease, as a well-known specialist recently remarked, in which at some period or another of its course, antiseptic and antiparasitic remedies are not indicated.

On account of its great persistence, it is especially useful in killing the resistant fungi of ringworm, favus, pityriasis versicolor, &c., and the parasites (pediculi, acarus, &c.).

IZAL Lint, Izal Gauze, and Wool are now prepared and put up, as it has been found how well wounds heal under the continued stimulating and antiseptic influence of Izal.

IZAL SOAP, Medical and Toilet, contains a sufficient percentage of Izal to render a remedy so persistent in its action of practical use in keeping the hands and body surgically pure—unlike carbolic soap, the action is not evanescent.

Every surgeon, accoucheur, and nurse should make a habit of always using Izal soap.

IZAL TOOTH POWDER is a delicate, pleasant, and elegant preparation, and forms an admirable antiseptic for the mouth and teeth. Much of the early decay, produced by acid forming bacteria, might be arrested if Izal were regularly employed.

IZAL CREAM is essentially a toilet preparation for the purifying, clearing, and softening of the skin, and is especially indicated in acne and pustular eruptions about the face.

IZAL is prepared for a variety of purposes, as :—

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IZAL Emulsion for Surgical and Internal Administration	**1/6 & 2/6 per bottle.**
IZAL Cream, in Tubes	**1/1½ tube.**
IZAL Soap, in 1-lb. or 3-lb. bars ...	**3d. per lb.**
IZAL Medical Soap, 3 tabs. in box...	**2/- per box.**
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IZAL Lint 2/4, Cotton Wool 2/- per lb.	
Gauze 1/- per 6-yard length.	
(To be had from the Maker, JOHN MILNE, Antiseptic Dressing Factory Ladywell, London.)	
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1891-2, 1894-5

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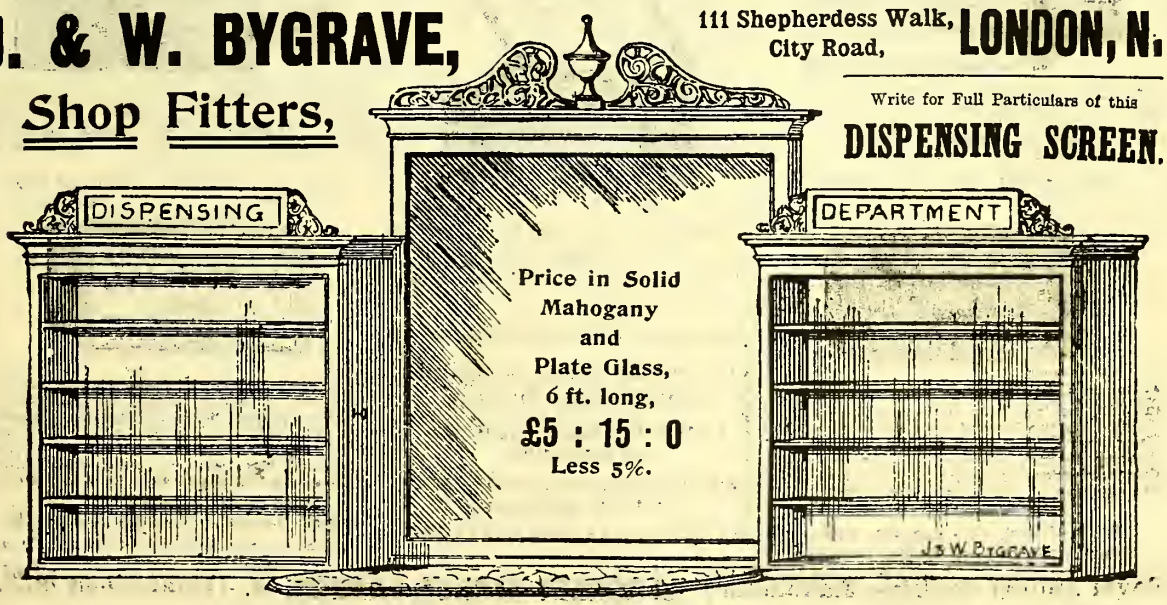

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For Chronic Cough, Broken Wind, Roaring, &c.

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or Curb Bottle.

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These Remedies are used in most of the Training Stables, Stables of Masters of Hounds, and by many thousands of Private Horse Owners in the United Kingdom and abroad.

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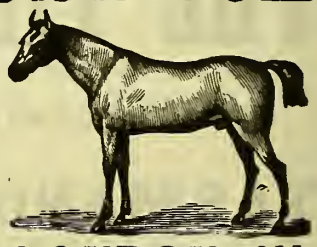
For Curbs, Splints, Spavins, Strains in the Back Sinews, Windgalls, Capped Hocks, Sore Throats, &c., in Horses.



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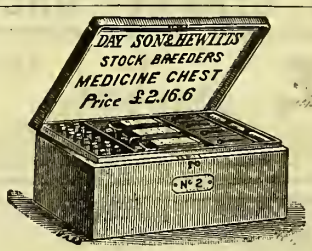

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Sold also at reduced rates in Tins 10/6 and £1 each

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WHOLESALE DRUGGISTS,
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SOLE MAKERS OF
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GELATINE CAPSULED
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Alterative, Condition, Cordial, Cough, Diuretic, Fever, Physic, Worm, Quinine Tonic Balls (Registered 81,291).

GELATINE-COATED DOG AND FOWL PILLS. SAMPLES FREE.

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Who supply Chemists with any of the following preparations packed in their own name:—
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DISINFECTANTS, BOTH POWDERS AND FLUIDS, IN BULK. PRICES ON APPLICATION. ESTABLISHED 1860.

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DAWES' is the only genuine guaranteed cure ever offered for sale.
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£8,000 has been offered for G. F. DAWES' UNPATENTED RECEIPT for making his famous FOOT-ROT PREVENTION and CURE.
Certain Cure for Thrush in Horses' Feet, Cracked Heels, and Grease.
"Heathfield, Modbury, S. Devon, September 19, 1895. DEAR SIR,—I find your Foot-Rot Cure to be very good. Please send me on another Pot. herein enclose Postal Order for the two Pots. Youre truly, JOHN ANDREWS."
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In ¼, ½ and 1lb. PACKETS.
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CHLORIDE OF LIME
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SPECIALLY SUITABLE FOR EXPORT.
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Immediately soluble in cold water.
All tins Free.
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Specially adapted for Export.

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Strength: 1 gall. sufficient for 25 galls. of water.
DOUBLE STRENGTH.
1 gall. sufficient for 50 galls. of water.
Liberal terms to the Trade. *Write for 1897 Price List.*

GENUINE KENTISH COMPRESSED HOPS.
In 1-lb and ½-lb. packets, with directions for making Hop Ale, Hop Bitters, &c.
Also best Kentish Hops in bulk.
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REFINERS OF BENZOLINE AND NAPHTHA DISTILLERS,

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Telegraphic Address—"CARLESS, HACKNEY WICK."

PETROLEUM OIL of best Brands; **WATER WHITE OIL** (high test) **CLEANING SPIRIT** (for Dyers' Use); **BURNING NAPHTHA** and **SOLVENT NAPHTHA**; **GASOLINE** (sp. gr. ·650); **BENZINE** (sp. gr. ·730) **BENZOLE, AUTOLINE, APOKATHARTIKON** (Universal Cleaning Spirit), **DOUBLY DISTILLED PETROL** for the **DAIMLER AUTOCARS, LAUNCHES,** &c., and **CARBURINE** (SPECIALLY MANUFACTURED for enriching gas).

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And sold at 1s. 1½d., 2s. 9d., 4s. 6d., 11s., 22s., and 33s. each Box or Pot. Chemists and Druggists selling "Holloway's Pills and Ointment" can, on application to the above address, or to the Wholesale House with whom they deal, be supplied free of charge with Handbills and Posters with their name and address printed at foot.

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Special Diplomas Awarded at the Montreal and Ottawa Exhibitions, Sept., 1895.

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ABDOMINAL, BODY, and other Supporting BELTS, BANDAGES AND SURGICAL ELASTIC APPLIANCES.

Descriptive Pamphlet with Particulars Post Free.

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Ladies' and Gentlemen's Ordinary Belts from £1 1s.

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GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.

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Prepared expressly for Oakey's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines. Sold in Canisters with perforated Tops to prevent waste, at 1*d.*, 2*d.*, 3*d.*, 6*d.*, 1*s.*, 2*s.* 6*d.*, and 4*s.* each.

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For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6*d.* each.

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A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste. Tins, 1*d.*, 2*d.*, 3*d.*, and 6*d.* each.

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In 1*d.*, 2*d.*, and 4*d.* Blocks, and 1*s.* Boxes.

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Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.

144

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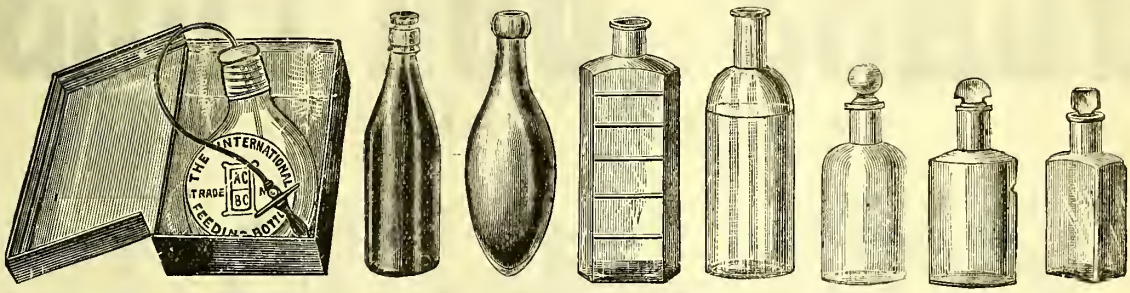

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BOTTLES & GLASSWARE

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DISPENSING BOTTLES.

Shop Rounds. Carboys.

STOPPERED PERFUMERY BOTTLES.

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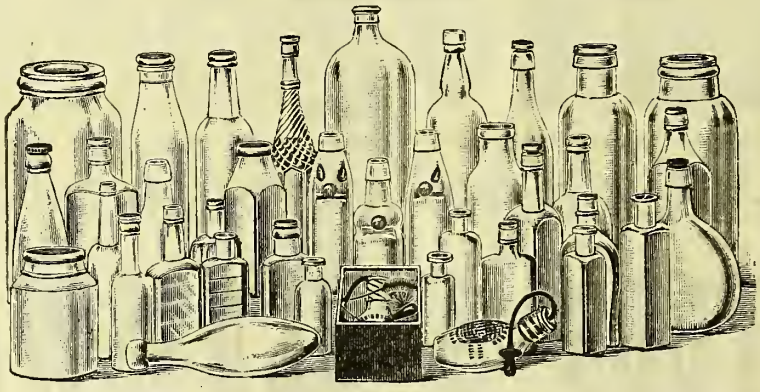
IN GREAT VARIETY.



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GREEN FLINT. Ordinary and Best Quality—Plain and Graduated. Flats (ordinary shape and round edges), Ovals, Direct Squares, Rounds, and Octagons.

WHITE FLINT VIALS—Plain and Graduated.

Feeding Bottles

In White and Green Glass. A large variety of Fittings of the best quality.

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(for Stoppers or Corks) of all kinds.

SYPHONS OF BEST MANUFACTURE.

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No. 3 Great Northern Goods Station, **KING'S CROSS, LONDON.**

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E. YOULDON

Is now giving special attention, and is in a position to supply

GLASS BOTTLES

OF ALL DESCRIPTIONS

AT LOWEST RATES.

E. Y. will much esteem the favour of enquiries, and feels confident of giving the greatest satisfaction.

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HEARN'S BOTTLES

ARE THE BEST IN THE MARKET.

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

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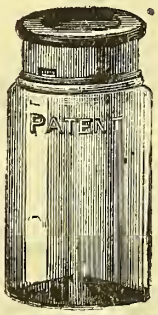

The only REALLY PERFECT Bottle for Vaseline, Pomades, Dry Powders, &c.

PRICES. Tall Series:—

Fitted with STRONG METAL CAPS, CORK-LINED; in Various Colours, very attractive in appearance:

1 oz. 11/-; 1½ oz. 11/6; 2 oz. 12/-; 3 oz. 15/-; 4 oz. 16/6 per gross, &c.

Special Prices on application for Quantities.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

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SHOP BOTTLES AND JARS WITH VITRIFIED (BURNT IN) LABELS.

METAL SCREW-CAP BOTTLES, GLASS MEASURES, STOPPERED BOTTLES, &c.

Buyers are requested to pay a visit to our New Showrooms.

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THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz.	7/6 per gross.	10 & 12 oz.	12/- per gross.
6 ,, 8 ,,	8/6 ,,	16 ,,	16/- ,,

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

½ oz.	3/6 per gross.	1½ oz.	4/6 per gross.
1 ,,	3/9 ,,	2 ,,	5/- ,,

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD, ST. PANCRAS, LONDON.
Established 50 years. *Bankers—London and Westminster Bank.*

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DIAMOND BRAND.

MANUFACTURERS OF

EMERY STONE	EMERY CLOTH
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POLISHING PASTE & ALL POLISHING MATERIALS

Works: Garston Docks.

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As supplied to the Army and Navy at Scutari Hospital.

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SURGICAL PLAISTERS IN

INDIARUBBER COMBINATION, Porous & Plain.

In order to meet the largely increased demand for our Rubber Combination Plaisters new and additional machinery has been laid down, and we now possess every facility for the production of Perfect Plaisters, and are in a position to execute orders without delay.

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Belladonna Plaisters a speciality.

All our Medicinal Plaisters are guaranteed to contain a definite and uniform quantity of the active ingredients.

NIGRINE Marking Fluid.

No warm iron or heating required.

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TRADE SDAM MARK.

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Every package bears this Trade Mark in white letters on a red ground.

Please specify **MILNE'S** on orders not sent direct, to ensure getting Lord Lister's authorised preparations.

ABSORBENT WOOL. GAUZE. LINT.

OILED SILK. SURGICAL SPONGES. SHEETINGS. JACONETS. LIGATURES.

Enquiries from Chemists desirous of supplying local Institutions promptly attended to.

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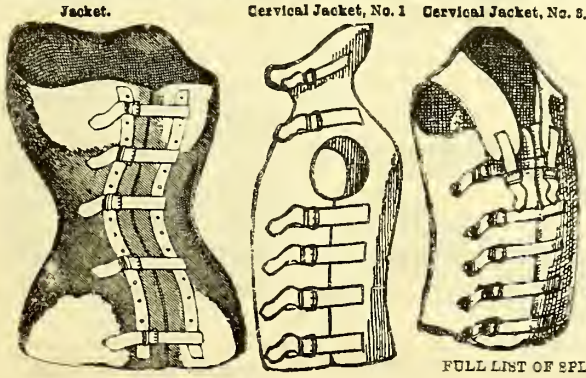
COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS.

Patentee and Sole Manufacturer, J. T. COCKING, PLYMOUTH.

Jacket. Cervical Jacket, No. 1 Cervical Jacket, No. 3.



JACKET

In cases of slight deformity.

INSTRUCTIONS FOR MEASUREMENT.

Circumference at axilla.
" waist.
" hips.
Length from axilla to great trochanter.

In severe angular cases, circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case. In all cases it must be stated if for male or female.

CERVICAL JACKETS.

Same measurements required, and circumference at neck, and length from neck to axilla

Any part of the Jacket can in the process of manufacture be left soft.

FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.

14 p.

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EXTRACTUM HYOSCYAMI,

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Per lb. 6/-; 14 lbs. 5/6; 28 lbs. 5/-

SPECIAL QUOTATIONS FOR CWT. LOTS.

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CATHETERS and BOUGIES

WARRANTED WOVEN EYES, SOLID ENDS, VERY FLEXIBLE AND STRONG WEB.

Cylindrical	7/6	per dozen.
Conical	8/6	"
A Boule or Olive pointed	9/6	"
A Coudée or Mercier	15/-	"

Large Discount for Wholesale Buyers.

R. MANSON, 75 Fortess Road, Kentish Town, LONDON, N.W.

MILK STERILIZERS.

Nos. 1, 2, and 3.

HAWKSLEY'S PATENT.

Descriptive Pamphlets Free by Post.

DAILY INCREASING SALE.

See Diary, page 574.

May be had through the Wholesale Trade, or direct from

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SURGICAL LINTS, BANDAGES,

BLEACHED, GREY AND ABSORBENT COTTONS.

SURGEONS' TOW. **PROTECTIVE LINT**

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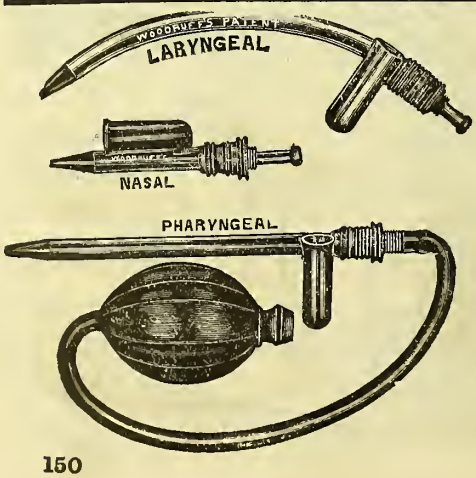

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(Woodruff's Patent).

An ideal apparatus for the administration and accurate use of Medicated Liquids or Solutions in minute quantities. The three forms shown are constructed so as to allow of the direct action of the Spray on the Larynx, Pharynx, and Mucous Membrane of the Nasal Cavity.

NETT TRADE PRICES:

LARYNGEAL, complete,	**60/-** doz.	Retail **6/6**	each.
PHARYNGEAL "	**54/-** "	" **6/-**	"
NASAL "	**50/-** "	" **5/6**	"

Spare Mounts, Bellows, and Pipettes are also supplied.

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Further particulars may be obtained on application to the Patentee—

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Nickel, Zinc, Tin, or other Metal.

MANUFACTURERS of every description of

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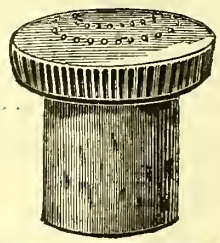
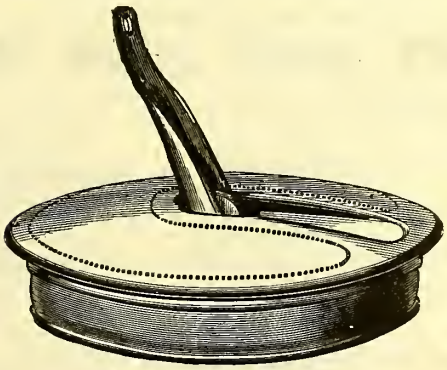
POMADE & SCREW CAPS,
CAPSULES, &c., &c.



PATENT UNION STOPPER.

Patent No. 12711.
THE UNIQUE BOX.



PATENT LEVER STOPPER.

Patent No. 12711
THE UNIQUE BOX.

Samples & Prices for Wholesale Buyers on application.

151

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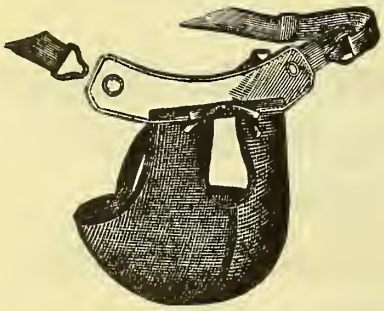
"WILLARDBELL" TRUSS

(Patented in the United Kingdom and the Continent.)

An Entirely New Principle. Succeeds where all others fail. Guaranteed to hold any Rupture.



Replenish your Stock with the

"WILLARDBELL" SUSPENSORIES

Material and Construction Surpassed by None.

Flexible Aluminium Plate Front, an Adjustable Shirt String on Pouch, also Adjustable Buckles.

Quality— No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Trade Price per dozen—	6/	7/	10/	15/	18/	3/6	6/6	8/	9/	8	8/6	24/	19/	24/	12/

Sizes:—Small, Medium, and Large, corresponding with the standard established for Suspensories.

Other Specialities:—The "Willardbell" Elastic Web Trusses, "Willardbell" Suspensory, "Willardbell" Jockstrap, "Willardbell" Ladies' Sanitary Bandage, Abdominal Supports, Chest and Lung Protectors, Ladies' and Gentlemen's Shoulder Braces, Elastic Stockings, Knee Caps and Anklets, and other appliances.

NOTE.—We have no hesitation in bringing our Goods under your special notice, as they have already established a reputation amongst Doctors and Chemists as of superior quality, finish, and efficiency.

We shall be pleased to submit on application Prices and Testimonials in reference to our Goods, with any other information required.

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ALSO KNOWN AS SOLUBLE QUININE PESSARIES.

ABSOLUTELY RELIABLE.

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A Soluble Quinine Pessarie of proved absolute reliability.
Upwards of 5,000,000 have been sold without a complaint of failure.

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GOOD COLONIAL AGENTS WANTED WHERE NOT ALREADY REPRESENTED.

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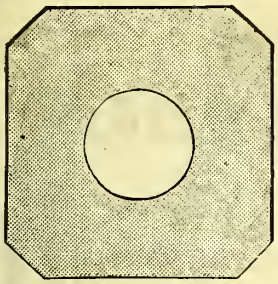

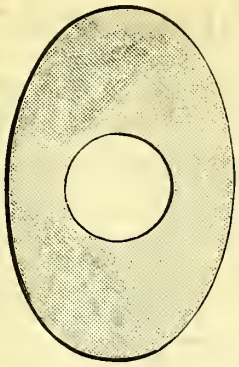

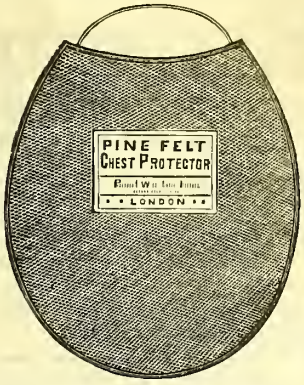

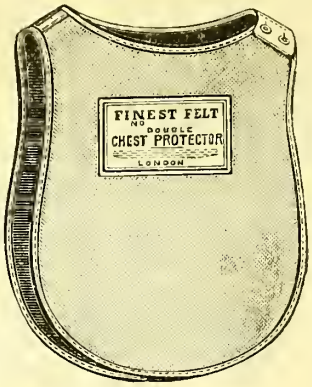

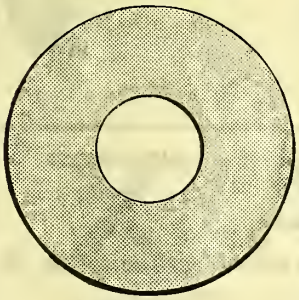

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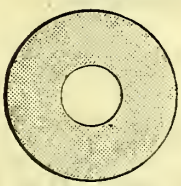

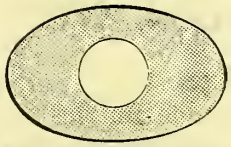

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COURT PLASTER AND GOLD BEATERS' SKIN.

SCARLET, WHITE, AND NATURAL GREY FELT CHEST PROTECTORS.

PINE FELT CHEST PROTECTORS.

PINE FELT or SCARLET FLANNEL CHEST PROTECTORS, Lined with Chamois Leather.

"FURFELT" CHEST PROTECTORS, made from a union of choicest Undyed Lamb's Wool, and the Fur of the Grey Coney.

BATH GLOVES & FLESH GLOVES. Nearly 100 patterns to select from.

BATH STRAPS or BELTS of Improved Patterns. **BATH PADS.**

LOOFAH GLOVES, STRAPS, & PADS.

LOOFAH SOCKS for Boots and Shoes. **SILK EYESHADES.**

CHAMOIS LEATHER FINGER & THUMB STALLS.

BLACK SILK FINGER STALLS.

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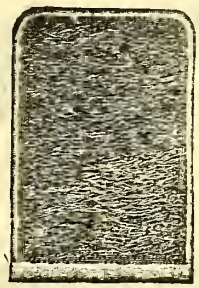
VACCINATION SHIELDS. RESPIRATORS, &c.

Price Lists on application.



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MARVELLOUS PREPARATION.

Refreshing as a Turkish Bath.
Splendid Cleansing Preparation for the Hair.
Allays the Irritation caused by Mosquito Bites.
Restores the Colour to Carpets.
Of all Chemists, Etc.

Invaluable for Toilet Purposes.
Removes Stains and Grease Spots from Clothing.
Invigorating in Hot Climates.
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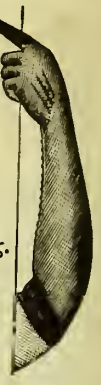
Price 1s. per Bottle.



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BEESWAX.

PURE REFINED BEESWAX.
"W. H. B."

In 2 lb. cakes in cases of about 130 lbs.
" 1 " " " 130 lbs.
" ½ " " " 130 lbs.
" ¼ " " " 130 lbs.
" 1 oz. cakes in 2-lb. parcels in cases of 54 lbs.
French Refined, in 1-lb. cakes in cases of 130 lbs.

PURE WHITE BEESWAX.
"W. H. B."

IN CASES OF 54 LBS.

In round cakes in 2-lb. parcels, or in oblong cakes loose.
In 1-oz. cakes in 2-lb. parcels.
Plain blocks of 7½ lbs. in cases of 250 lbs.
White Wax.—Plain round cakes in 2-lb. parcels in cases of 72 lbs.

Our Customers only are our Agents. Weights and quality guaranteed. Free on rail in Liverpool. Ex Quay London, Glasgow, Bristol, and Hull

PAYMENTS.—After the goods have sailed from here we make a (30 days after sight) draft on the buyer, payable in London for amount of the invoice.

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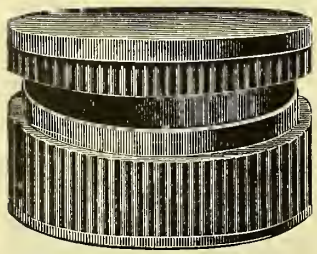
THE "STIPENDUM" STOPPER CO., LIM.



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IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended.
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The only Machine which leaves no crease or pleat on the Capsule. [1]

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A single pull of the lever is sufficient to fix the Capsule.

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By selling my "Plain Label"* Lines. Should remit prices quoted for sample ¼-gross lots. If not satisfactory I will pay carriage back, and return cash.

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In ¼-gross tin boxes .. .. 5/-; double size, 7/-

PENNY CEMENT *(largest and best)*
On ¼-gross cards 5/3

***PENNY SEIDLITZ POWDERS**
¼-gross glass-top boxes .. .. at 6/-

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½-gross glass-top boxes .. .. at 2/9

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½-gross glass-front boxes .. .. at 6/6

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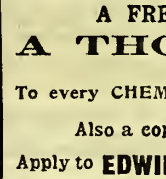

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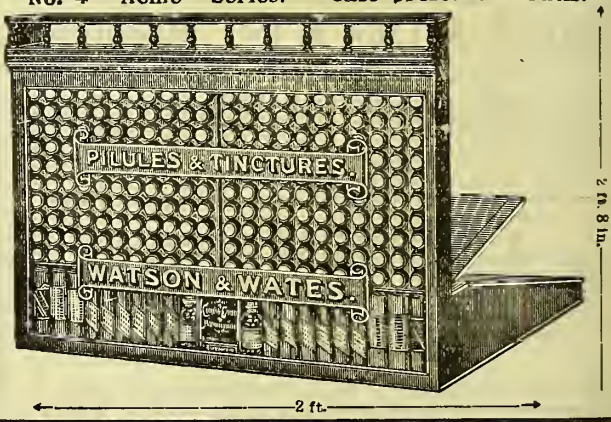

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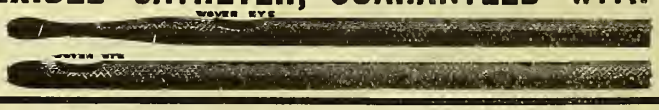

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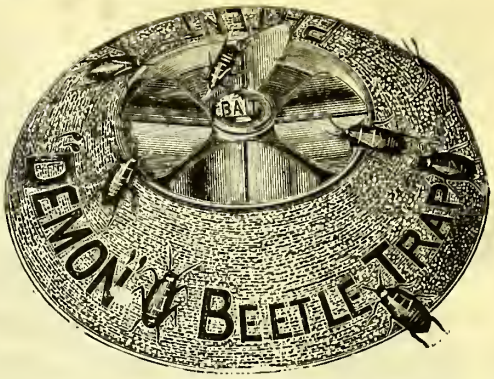

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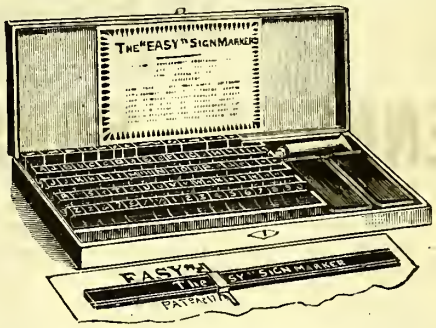

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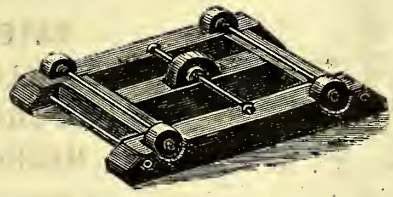

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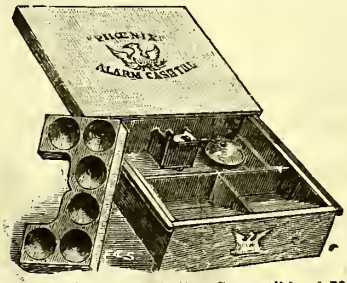

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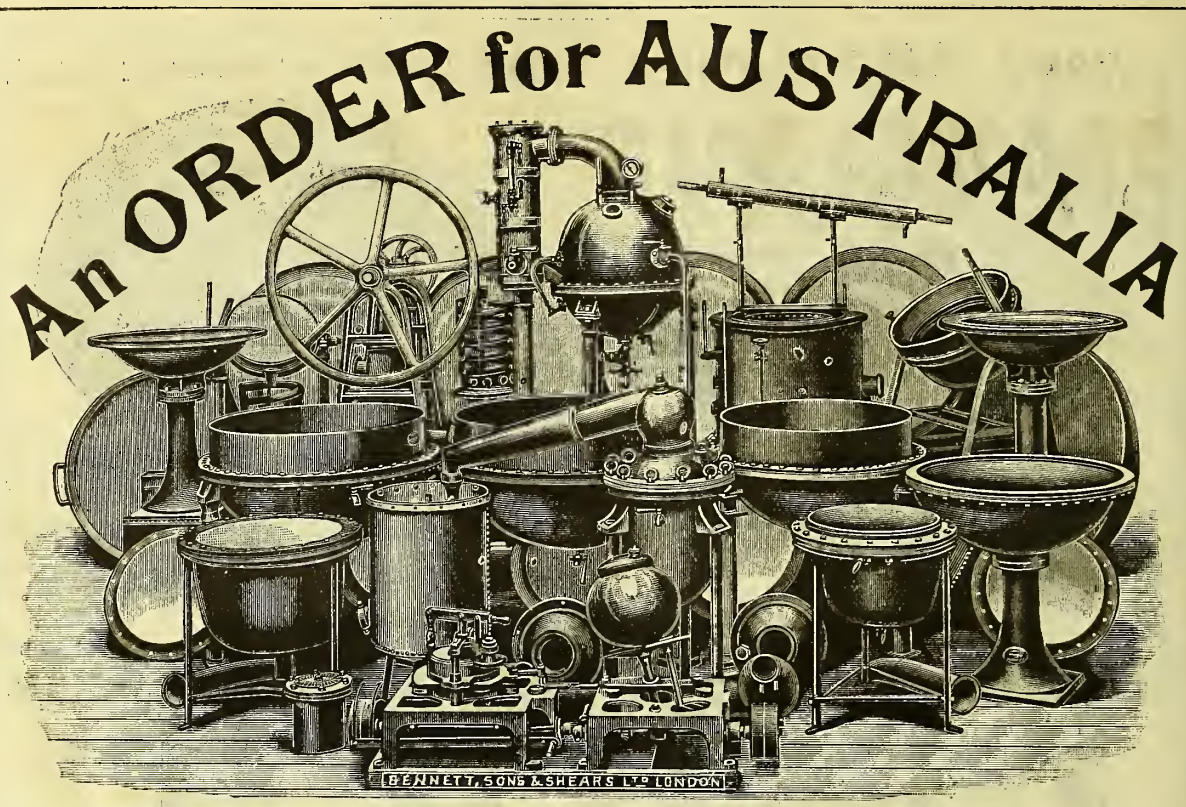

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THE ONLY PERFECT MACHINE FOR THIS OPERATION.

The Pill Plate takes ¼ lb. of Pills at once, and these are rounded in less than one minute.

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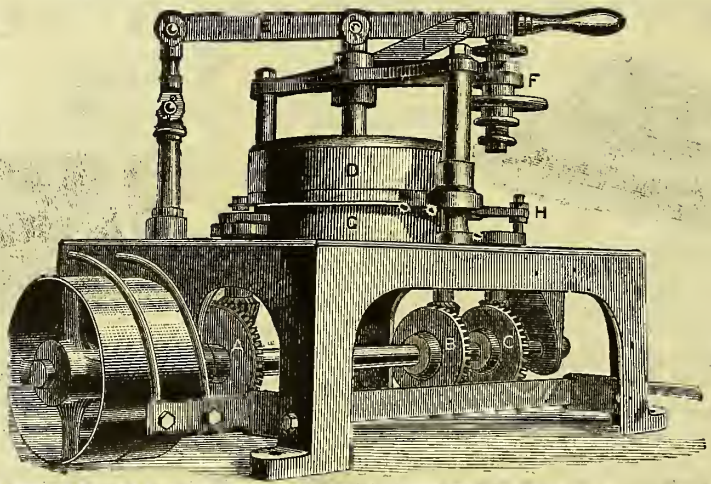

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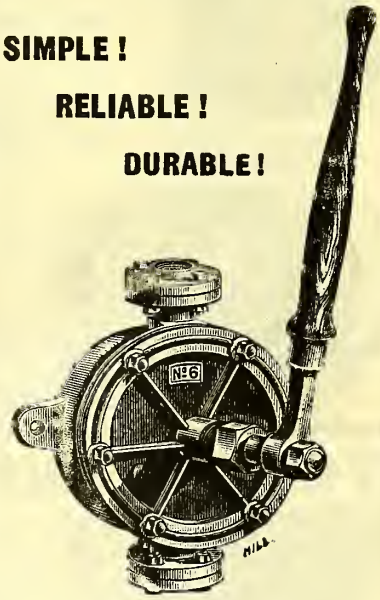

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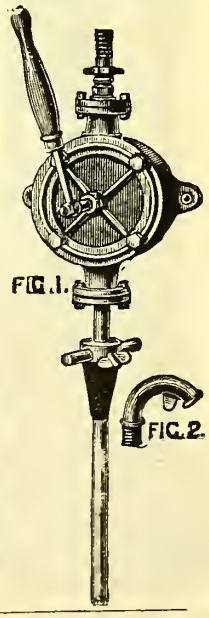
"WILLCOX NEW SEMI-ROTARY"

PATENT BARREL PUMP.

For Pumping Oils, Wines, Spirits, and other Liquids from Casks, &c.

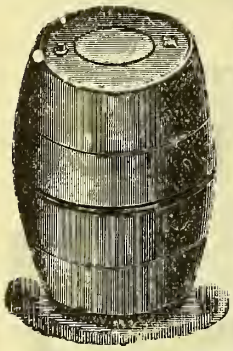
This is a representation of our "Willcox New Semi-Rotary" Pump, with Improved Taper Barrel Attachment. It is easy to work and simple in construction, and is admitted to be the best article in the market for Pumping Paraffin Oil, and all kinds of Liquid from barrels or tanks into other receptacles.



W. H. WILLCOX & CO., Engineers' Stores, 34 & 36 SOUTHWARK ST., LONDON.

CAIRD'S
STAMPED STEEL BARRELS

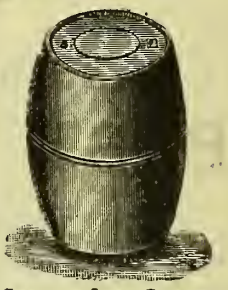
NO COOPERAGE, NO LEAKAGE, NO LOSS BY EVAPORATION.



For Carrying and Storing Chemicals. Spirits, Acids, Varnishes, Oils, and Other Liquids.

ALSO

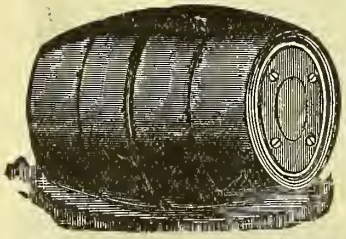
White Lead, Paints, Resin, Gums, Wax, Soft Soap, and other Dry or Semi-Liquid Goods.



Occupy Less Space, are Stronger and more Durable than Wood Barrels.

Are less Dangerous than Wood Barrels.

CORRESPONDENCE INVITED.



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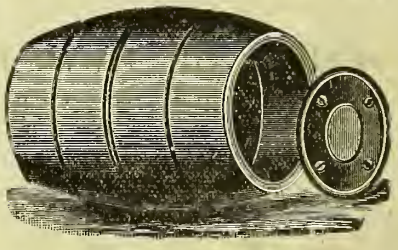
IRON & STEEL PLANT CO

LIMITED,

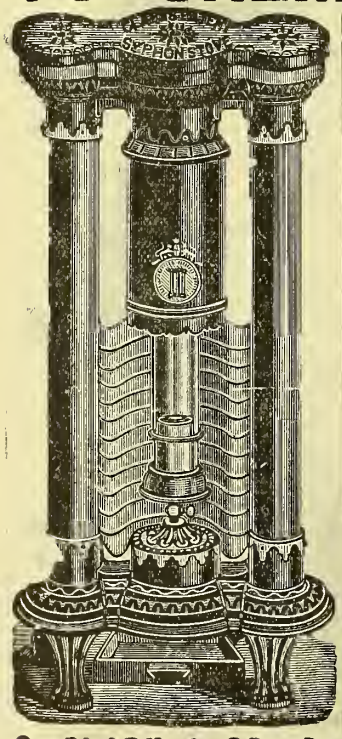
3 Crown Court, Old Broad St.,

LONDON, E.C.

WORKS—Barrow-in-Furness.



TO CHEMISTS AND DRUGGISTS.

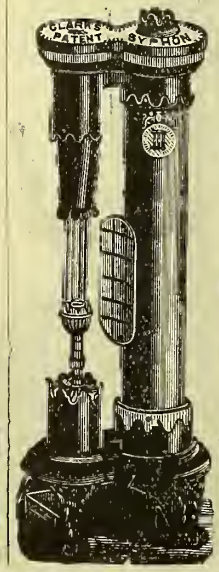


AGENTS WANTED FOR THE SALE OF

"THE SYPHON" (Registered Title)

HYGIENIC CONDENSING GAS HEATING-STOVES

(CLARK'S PATENT).



A Necessary for all Invalids.
A Comfort to Everybody.

NO FLUE REQUIRED.

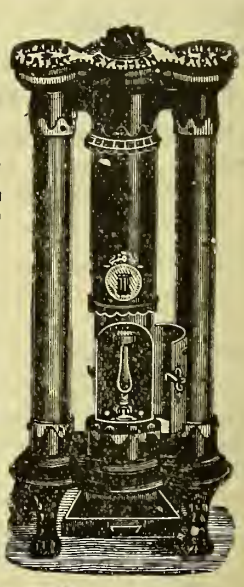
FREE FROM SMELL OR SMOKE.

All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.

A LIBERAL DISCOUNT ALLOWED.

The "Syphon" Stove is admirably adapted for heating Chemists' and Druggists' Shops and Stores. The heat is evenly diffused, and can be graduated or sustained at pleasure.



For Terms, Particulars, and Prices, apply to

S. CLARK & CO., Patentees & Makers, **SYPHON WORKS, PARK ST., ISLINGTON, LONDON, N**

Telegraphic Address—"SYPHON STOVES LONDON." Wholesale Agents—Messrs. Maw, Son & Thompson, Aldersgate Street, London, E.C

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GARDNER'S PATENT "RAPID"

SIFTERS & MIXERS

Will Sift and Mix **DRUGS, CHEMICALS, COLOURS, CEMENTS, FOODS, SUGAR, FLOUR, ACIDS,** and **SIMILAR POWDERS** of every kind, and reduce lumps in them to powder at same operation.

These Illustrations give some of the Patterns made to suit various Trades. Many others in our complete Catalogue. Send for copy.

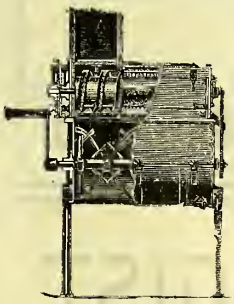


Fig. 1.

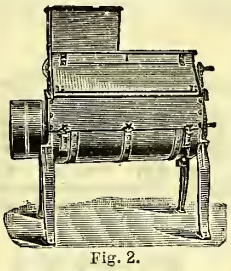


Fig. 2.

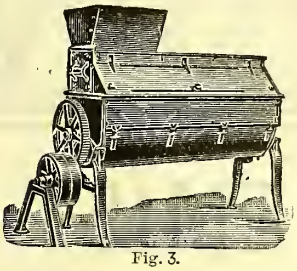


Fig. 3.

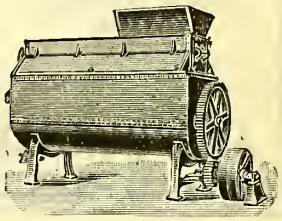


Fig. 4.

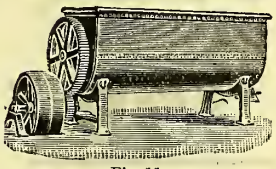


Fig. 11.

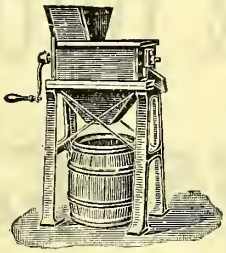


Fig. 9.

Cables and Telegrams:—
"GARDNER GLOUCESTER."
Nat. Telephone:—No. 117.

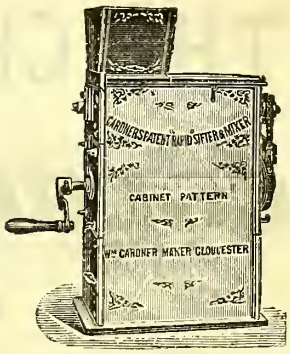


Fig. 5.

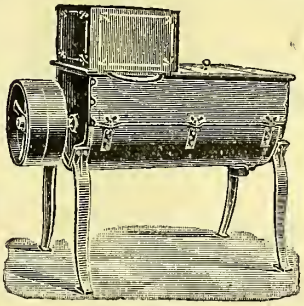


Fig. 12.

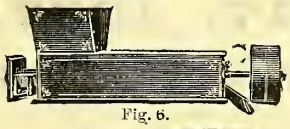


Fig. 6.

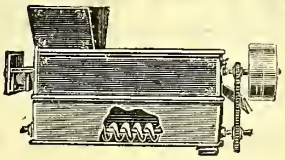


Fig. 8.

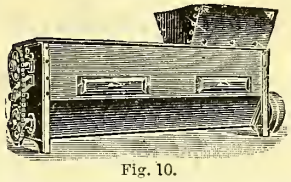


Fig. 10.

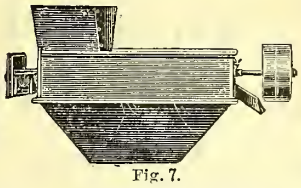


Fig. 7.

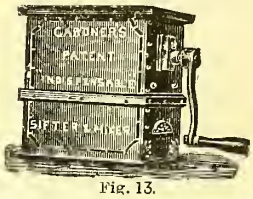


Fig. 13.

PRICES AND CAPACITIES OF PATTERNS ABOVE.

	COMBINED "RAPID" SIFTER & MIXER				"RAPID" SIFTER ONLY				"RAPID" MIXER ONLY				
									Fig. 11 Flat Top Pattern			Fig. 12 Hopper Top Pattern	
Size	Capacity in lbs. about	Fig. 1 Hand Sizes	Fig. 2 Power Sizes with Pulleys.	Figs. 3 & 4 Gear Drive with Pulleys	Fig. 6 Open Bottom	Fig. 7 Hopper Bottom	Figs. 8 & 10 Worm Bottom	Fig. 9 On Iron Stand	For Hand	Pulley Drive	Gear Drive	Pulley Drive	Gear Drive
		£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.	£ s.
A	15	8 0	—	—	4 5	5 0	6 0	6 10	4 15	—	—	—	—
B	30	11 0	—	—	5 15	6 15	7 15	8 0	6 0	—	—	—	—
C	60	17 0	18 5	—	8 5	9 10	11 0	11 0	9 10	10 10	—	12 0	—
D	100	21 0	22 10	24 10	11 0	12 10	15 0	14 10	12 0	13 10	15 10	15 5	17 15
E	150	Larger	24 15	27 0	12 0	14 0	16 0	16 0	—	14 15	17 0	16 15	19 0
F	200	Sizes not	29 16	32 0	13 0	15 10	17 5	17 10	—	17 0	20 0	19 0	22 0
G	300	recom-	—	41 0	19 0	22 0	24 5	24 10	—	—	27 10	—	30 10
H	560	mended	—	70 0	—	—	35 0	—	—	—	40 0	—	—
I	1120	for Hand	—	120 0	—	—	45 0	—	—	—	80 0	—	—
					<—Pulleys for Sifters extra.—>				<——Pulleys Included.——>				

Fig. 5. **Patent "Rapid" Sifter and Mixer** (Cabinet Pattern). Size A, capacity 15 lbs., £6 each. Size B, capacity 30 lbs., £8 each.
Fig. 13. **"Indispensable" Sifter and Mixer,** for small users, Size No. 1, capacity 7 lbs., £2 10s. each. No. 2, capacity 14 lbs., £3 10s. each.
NOTE.—The "Indispensable" sifts and mixes powders only, and does not reduce lumps like the "Rapid" patterns.
All prices F.O.R. Gloucester. For Shipping Orders add 8 per cent. extra for Packing and Delivering F.O.B. London.

GARDNER'S PATENT "RAPID" SIFTER, MIXER, & DRYER,
For Sifting and Mixing, also Drying Moisture out of Powders, at one time; a new and highly successful Machine.

WM. GARDNER & SONS,

Specialists in Sifting and Mixing Machinery,

BRISTOL ROAD, **GLOUCESTER,** ENGLAND.

Agent for AUSTRALIA and NEW ZEALAND—JULIUS LEVY, Angel Place, 127 Pitt Street, SYDNEY.

THE NEW PERMANENT

ENGRAVED WINDOW TABLETS

PRIZE MEDAL, International Health Exhibition, 1884.

IN RUBY, BLUE, AMBER, AND OPAL GLASS.

AWARD OF MERIT, International Sanitary Exhibition, 1881.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8 × 6 Ruby Tablets, £3 15s. 0d.

J. R. CORSAN, THE LONDON SAND-BLAST WORKS, **58 GRAY'S INN ROAD, W.C.**

TO PREVENT FRAUD DEMAND BUSINESS CARD FROM TRAVELLERS.

THE CHEMIST & DRUGGIST.

COLONIAL ISSUE, 1897

(APRIL 17, 1897),

Will circulate specially among all Buyers of Druggists' Goods in

India, Burmah,
The Straits Settlements,
South Africa, China, Japan,
AND THE
West Indies.

We have recently revised our registers of these countries, and find that within the last year a number of traders in a considerable number of towns, which were not included in 1896, have been added, and will receive a copy of this important issue.

This will be in addition to our usual Home and Foreign Circulation to Subscribers.

There is no better and cheaper way for getting directly at Colonial and Foreign Buyers than by advertising in The Chemist and Druggist. Such buyers especially regard our Journal as the best source of information about all that is useful to them in their business.

For terms for advertisements apply to

The PUBLISHER, 42 Cannon Street, London, E.C.

164

A NEW SIZE—SIZE O.

(Provisionally Protected, No. 20,040.)

SOUTHALLS'

"SANITARY TOWELS"

(ABSORBENT AND ANTISEPTIC)

Are now supplied below the cost of washing, viz.,

SIXPENCE A DOZEN.

SIXPENCE A DOZEN.

The New Size is marked Size O.

This new Halfpenny Size brings the "Sanitary Towel" within the reach of all classes. As it is being extensively advertised, an enormous demand is expected, and it should consequently be stocked at once to prevent disappointment.

Size O	... ... ***6d.*** per doz.	Size 3	... ... ***2/-*** per doz.
,, 1	... ... ***1/-*** ,,	,, 4	... ... ***2/-*** ,,
,, 2	... ... ***1/6*** ,,	,, X	... ... ***2/9*** ,,

Trade Price, 5/- per Gross.

Sizes 1 to X are of the improved make; Sizes 3 and 4 differ in shape; Size X specially made for Accouchement.

A 6d. Mixed Sample Packet, marked Size S, is now supplied, containing samples of the ½d., 1d., 1½d., and 2d. sizes (six Towels in all). Size 1 Towel can be had in sample packets of half-dozen at 6d. per packet.

Supplied by the Leading Druggists' Sundriesmen, Wholesale Druggists, Surgical Instrument Makers, &c.

SPECIAL SHOW CARDS for bringing the New Size O under the notice of the public, also Circulars with name and address as agent, are supplied free on application.

SHOW CASES for counter sale, containing specimens of the Towels, including the ***HALFPENNY TOWEL,*** at ***3/6.*** Those who already have Show Cases can have a Free Sample of the New Size O to complete the series.

Patentees and Manufacturers—

SOUTHALL BROS. & BARCLAY, BIRMINGHAM

THE "Leicester" AND "National"

(REGISTERED TRADE MARKS)

Medical Plasters

AND

Surgical Bandages.

Estab. 1823.
(Formerly MOORS.)

PRICES SUBJECT TO DISCOUNT.

6d. Tin, per dozen 3/6.

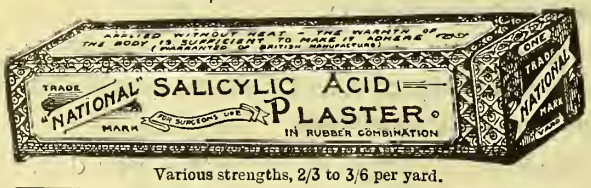
Per dozen 2/9

4/-

6/6

All widths on Spools.

Kidney Plaster on Red Felt.
Per dozen 6/-



Various strengths, 2/3 to 3/6 per yard.

Tins containing 1 yard, per dozen 12/-

"THE LEICESTER"

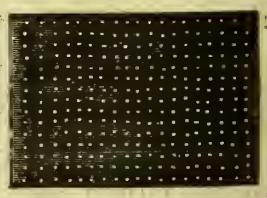
POROUS PLASTERS

IN RUBBER COMBINATION.

7½ by 5 Inches. In Boxes of 2 dozen.

BELLADONNA, on Scarlet Felt	Special Quality.	per dozen	4/-
BELLADONNA, on Cotton Cloth	Special Quality.	"	3/6
BELLADONNA with CAPSICUM, on Cotton Cloth	Special Quality.	"	3/6
BELLADONNA with OPIUM " "	Special Quality.	"	3/6
BELLADONNA, on Red Canton Flannel		"	2/6
BELLADONNA, on Cotton Cloth		"	2/-
CAPSICUM " "		"	2/-
STRENGTHENING " "		"	2/-
STRENGTHENING, on Red Canton Flannel		"	2/-
STRENGTHENING, on Scarlet Felt		"	3/-

Other sizes (12 by 7, 9 by 6, &c.) at proportionate prices.



All "The Leicester" plasters are of reliable strength and guaranteed purity.

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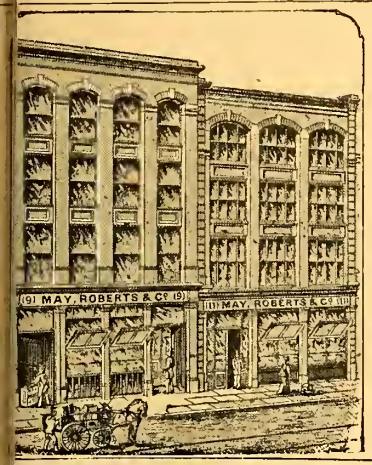
A. DE ST. DALMAS & CO., LEICESTER.

(Formerly MOOR.)



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ILLUSTRATED PRICE LIST.

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Sent Post Free on application with Business Card.

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Druggists' Sundries.
Packed Drugs & Perfumery.
Patent Medicines.

NO TRAVELLERS.
Their Expenses given to Buyers.
CARRIAGE PAID!
See Terms.

MAY, ROBERTS & CO., LONDON

Telegraphic Address: "FEEDING BOTTLES LONDON."
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MAY, ROBERTS & CO.'S

SANOPENNIES

(SANITARY TABLETS, Wire Loop for hanging up).

A Pleasant, Powerful, and Continuous Disinfectant.

Per gross, 5/-, in Wood Boxes. Smaller quantities, 5/6.

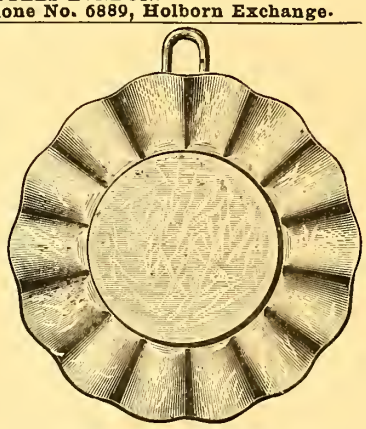


ILLUSTRATION HALF ACTUAL SIZE.

CHEAP LINE!

SANITARY PAPER.

In CASES (free) of 144 Perforated Rolls.

Per Case	26/-
Per dozen Rolls	2/3

CHEAP LINES. SANITARY PAPER.

Fig. 1.

Fig. 2

Fig. 1. Stout Paper, 2/- per doz. Fig. 2. Thin Paper, 2/- per doz.

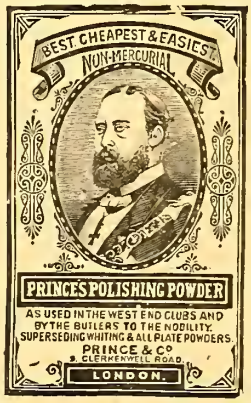
niversal Metal Putz Pomade.

For Cleaning Brass, Iron, &c.
l. tins, 5/- gross. 3*d.* tins, 13/- gross.

AMERICAN LIQUID PUTZ.

Small Cans	per doz.	4/6
Half-pint Cans	"	8/-
Gallon Cans	"	100/-

Prince's Polishing Powder.



6*d.* Boxes, 3/6 doz.; 1/- Boxes, 7/-.

All the above subject to the usual terms and conditions.

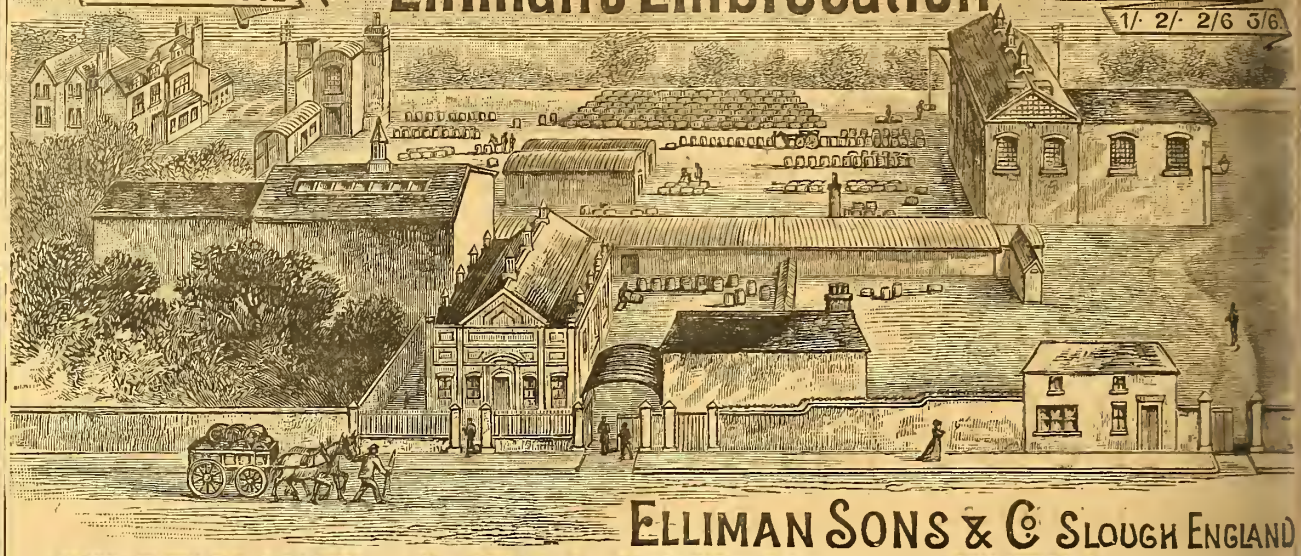
MAY, ROBERTS & CO., LONDON.

YEAR BY YEAR 1847 TO 1897 INCREASING DEMAND

UNIVERSAL 8½° ETC.
FOR HUMAN USE

FOR **Elliman's Embrocation**

ROYAL
FOR ANIMALS
1/- 2/- 2/6 3/6.



ELLIMAN SONS & Co SLOUGH ENGLAND

Cadbury's Cocoa

ABSOLUTELY PURE therefore BEST.

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure." *The Analyst.*

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

SAFE TEETHING.

DO NOT LET YOUR CHILD DIE!

Fennings' Children's Powders Prevent Convulsions; are Cooling and Soothing.

FENNINGS' CHILDREN'S POWDERS.

For Children Cutting their Teeth, to Prevent Convulsions.

Sold in Stamped Boxes, at 1*s.* 1½*d.* and 2*s.* 9*d.* (great saving), with full Directions.

Do not contain Calomel, Opium, Morphia, nor anything injurious to a tender babe.

Chemists, by applying to the Patent Medicine Houses and Wholesale Chemists, can obtain, free of any charge, a supply of "FENNINGS' EVERY MOTHER'S BOOK," for Counter distribution.

SAFE TEETHING.

As—

FILTERING MEDIUM,
CLARIFYING AGENT,
DENTIFRICE,
PLATE POWDER, &c.

For the Preparation of—

VIOLET POWDERS,
NURSERY POWDERS,
DUSTING POWDERS,
ANTISEPTIC POWDERS, &c.

"DIMATOS"

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